

COMPREHENSIVE MEMBRANE SCIENCE AND ENGINEERING



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Advanced Membrane Science and Technology for Sustainable Energy and Environmental Applications Angelo Basile,Suzana Pereira Nunes,2011-08-24

Membrane materials allow for the selective separation of gas and vapour and for ion transport Materials research and development continues to drive improvements in the design manufacture and integration of membrane technologies as critical components in both sustainable energy and clean industry applications Membrane utilisation offers process simplification and intensification in industry providing low cost and efficient and reliable operation and contributing towards emissions reductions and energy security Advanced membrane science and technology for sustainable energy and environmental applications presents a comprehensive review of membrane utilisation and integration within energy and environmental industries Part one introduces the topic of membrane science and engineering from the fundamentals of membrane processes and separation to membrane characterization and economic analysis Part two focuses on membrane utilisation for carbon dioxide CO2 capture in coal and gas power plants including pre and post combustion and oxygen transport technologies Part three reviews membranes for the petrochemical industry with chapters covering hydrocarbon fuel natural gas and synthesis gas processing as well as advanced biofuels production Part four covers membranes for alternative energy applications and energy storage such as membrane technology for redox and lithium batteries fuel cells and hydrogen production Finally part five discusses membranes utilisation in industrial and environmental applications

including microfiltration ultrafiltration and forward osmosis as well as water wastewater and nuclear power applications With its distinguished editors and team of expert contributors Advanced membrane science and technology for sustainable energy and environmental applications is an essential reference for membrane and materials engineers and manufacturers as well as researchers and academics interested in this field Presents a comprehensive review of membrane science and technology focusing on developments and applications in sustainable energy and clean industry Discusses the fundamentals of membrane processes and separation and membrane characterization and economic analysis Addresses the key issues of membrane utilisation in coal and gas power plants and the petrochemical industry the use of membranes for alternative energy applications and membrane utilisation in industrial and environmental applications Synthetic Membranes: P.M. Bungay, H.K. Lonsdale, M.N. de Pinho, 2012-12-06 The chapters in this book are based upon lectures given at the NATO Advanced Study Institute on Synthetic Membranes June 26 July 8 1983 Alcabideche Portugal which provided an integrated presentation of synthetic membrane science and technology in three broad areas Currently available membrane formation mechanisms are reviewed as well as the manner in which synthesis conditions can be controlled to achieve desired membrane structures Membrane performance in a specific separation process involves complex phenomena the understanding of which requires a multidisciplinary approach encompassing polymer chemistry physical chemistry and chemical engineering Progress toward a global understanding of membrane phenomena is described in chapters on the principles of membrane transport The chapters on membrane processes and applications highlight both established and emerging membrane processes and elucidate their myriad applications It is our hope that this book will be an enduring comprehensive compendium of the state of knowledge in the field of synthetic membranes We have been encouraged in that hope by numerous expressions of interest in the book coming from a variety of potential users Membrane Technology and Applications Richard W. Baker, 2004-04-21 This A to Z guide to membrane science technology and applications provides comprehensive coverage of membrane preparation modules and transport theory Highly illustrated with comprehensive and current reference listings the resource provides practical uses and how tos for a broad range of application areas Single author work presenting a unified treatment Comprehensive coverage of membrane preparation modules and transport theory A how to book giving practical advice Highly illustrated with comprehensive and current reference listings **Membranes and Membrane Technologies III** Juan Manuel Peralta-Hernández, 2024-03-15 Aggregated Book Membrane Engineering Enrico Drioli, Lidietta Giorno, Francesca Macedonio, 2018-12-17 Modern membrane science and technology aids engineers in developing and designing more efficient and environmentally friendly processes The optimal material and membrane selection as well as applications in the many involved industries are provided This work is the ideal introduction for engineers working in membrane science and applications wastewater desalination adsorption and catalysis process engineers in separation science biologists and biochemists environmental scientists and most of all students Its

multidisciplinary approach also stimulates thinking of hybrid technologies for current and future life saving applications artificial organs drug delivery **Membrane Contactors: Fundamentals, Applications and Potentialities** Enrico Drioli,A. Criscuoli,E. Curcio,2011-08-30 Membrane Contactors Fundamentals Applications and Potentialities Volume 11 covers new operations that could be efficiently used to improve the performance of a variety of industrial production cycles in applications ranging from biotechnology to agrofood This book focuses on the basic principles of work required membrane materials and properties major operating parameters the importance of module configuration and design and the performance of membrane contactors in specific processes The authors dynamic approach to this subject makes Membrane Contactors Fundamentals Applications and Potentialities Volume 11 the most comprehensive book currently available on all aspects related to the membrane contactor world Describes new unit operations in process engineering Covers a wide variety of industrial applications from biotechnology to agrofood Applicable to process intensification and sustainable growth strategies

Science and Technology of Separation Membranes Tadashi Uragami,2017-02-10 Offers a comprehensive overview of membrane science and technology from a single source Written by a renowned author with more than 40 years experience in membrane science and technology and polymer science Covers all major current applications of membrane technology in two definitive volumes Includes academic analyses applications and practical problems for each existing membrane technology Includes novel applications such as membrane reactors hybrid systems and optical resolution as well as membrane fuel cells

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Encyclopedia of Environmental Science and Engineering James R. Pfafflin, Edward N. Ziegler, 1983 **Membrane Science and Engineering** Hannah Palmer, 2019-06-28 Membrane science and engineering is the scientific study of the transport of substances between two fractions through a permeable membrane. It is used as a mechanical separation method for separating gaseous or liquid streams. The separation method requires no application of heat like distillation and crystallization. It is of significance in food biotechnology and pharmaceutical industries. Important applications include the filtration of water using reverse osmosis treatments in food industry, petrochemical vapor recovery and electrolysis for chlorine production. The medical applications of membrane technology are present in hemodialysis among many others. Research in membrane technology explores new techniques of wastewater treatment, energy recovery etc. There has been rapid progress in this field and its applications are finding their way across multiple industries. This book covers in detail some existing theories and innovative concepts revolving around membrane science and engineering. Students, researchers, experts and all associated with this field will benefit alike from this book.

Comprehensive Analytical Chemistry Cecil Leeburn Wilson, David Woodburn Wilson, 1959 *Current Trends and Future Developments on (Bio-) Membranes* Angelo Basile, Kamran Ghasemzadeh, Adolfo Iulianelli, 2021-12-03 *Transport Phenomena in Membranes* illustrates many aspects of mass transport in different membranes used in separation processes along with their advantages when compared with other types of separation methods. This book focuses on introducing and analyzing transport phenomena in membranes and overviewing achievements in the development of mass transport mechanisms of various membranes. Hence this book is a key reference text for R&D managers in industry interested in the development of membrane technologies as well as academic researchers and postgraduate students working in the wider area of the strategic treatment, separation and purification processes. This book is intended to act as a resource for a wide range of people in various separation fields including students.

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