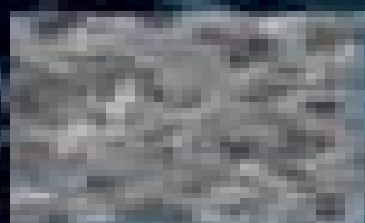




Journal of Membrane Science

# COMPREHENSIVE MEMBRANE SCIENCE AND ENGINEERING



Edited by

Enrica Drioli • Lidia Giorno • Enrico Fontanelli

# Comprehensive Membrane Science And Engineering

**M Woodhall**



## **Comprehensive Membrane Science And Engineering:**

**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 *Comprehensive Membrane Science and Engineering* Enrico Drioli, Lidietta Giorno, 2010 [Comprehensive Membrane Science and Engineering: Membrane operations in molecular separations](#) ,2010 **Comprehensive Membrane Science and Engineering: Chemical and biochemical transformations in membrane systems** ,2010 **Comprehensive Membrane Science and Engineering: Membrane contactors and integrated membrane operations** ,2010 **Comprehensive Membrane Science and Engineering** ,2010 This work covers all aspects of membrane science and technology from basic phenomena to the most advanced applications and future perspectives *Zong he mo ke xue yu gong cheng* 宗合膜科学工程, 2022 13 [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 CO<sub>2</sub> 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 syn thetic 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 separa tionprocess involves complex phenomena the understanding of which re quires a multidisciplinary approach encompassing polymer chemistry phys ical 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 compen dium 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 applicationsprovides comprehensive coverage of membrane preparation modules and transport theory Highly illustrated with comprehensive andcurrent reference listings the resource provides practical usesand how to s for a broad range of application areas Single author work presenting a unified treatment Comprehensive coverage of membrane preparation modules andtransport theory A how to book giving practical advice Highly illustrated with comprehensive and current referencelistings     **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

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*Synthetic*

*Membranes*: P.M. Bungay, H.K. Lonsdale, M.N. de Pinho, 1986-07-31 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

**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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