



Second Edition

COMPREHENSIVE MEMBRANE SCIENCE AND ENGINEERING



Edited by
Enrica Drioli • Lidietta Giorno • Enrica Fontanarrosa

Comprehensive Membrane Science And Engineering

E Durkheim



Comprehensive Membrane Science And Engineering:

Comprehensive Membrane Science and Engineering Enrico Drioli, Lidietta Giorno, 2010 *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: Chemical and biochemical transformations in membrane systems*, 2010 **Comprehensive Membrane Science and Engineering: Membrane operations in molecular separations**, 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 **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 Membrane Fabrication Nidal Hilal,Ahmad Fauzi Ismail,Chris Wright,2015-03-02 Membranes play a crucial role in ensuring the optimum use and recovery of materials in manufacturing In the process industries they are required for efficient production and minimization of environmental impact They are also essential for the efficient production of clean water a significant global issue Membrane Fabrication brings together ex

Handbook of Membrane Separations Anil K. Pabby,S. Ranil Wickramasinghe,Ana-Maria Sastre,2023-12-22 The third edition of the Handbook of Membrane Separations Chemical Pharmaceutical Food and Biotechnological Applications provides a comprehensive discussion of membrane applications Fully updated to include the latest advancements in membrane science and technology it is a one of its kind overview of the existing literature This fully illustrated handbook is written by experts and professionals in membrane applications from around the world Key Features Includes entirely new chapters on organic solvent resistant nanofiltration membrane condensers membrane reactors in hydrogen production membrane materials for haemodialysis and integrated membrane distillation Covers the full spectrum of membrane technology and its advancements Explores membrane applications in a range of fields from biotechnological and food processing to industrial waste management and environmental engineering This book will appeal to both newcomers to membrane science as well as engineers and scientists looking to expand their knowledge on upcoming advancements in the field **Nanostructured Polymer Membranes, Volume 1** Visakh P. M.,Olga B. Nazarenko,2016-11-18 This book is intended to serve as a one stop reference resource for important research accomplishments in the area of nanostructured polymer membranes and their processing and characterizations It will be a very valuable reference source for university and college faculties professionals post doctoral research fellows senior graduate students and researchers from R D laboratories working in the area of polymer nanobased membranes The various chapters are contributed by prominent researchers from industry academia and government private research laboratories across the globe and comprise an up to date record on the major findings and observations in the field **Comprehensive Biotechnology** ,2011-08-26 The second edition of Comprehensive Biotechnology Six Volume Set continues the tradition of the first inclusive work on this dynamic field with up to date and essential entries on the principles and practice of biotechnology The integration of the latest relevant science and industry practice with fundamental biotechnology concepts is presented with entries from internationally recognized world leaders in their given fields With two volumes covering basic fundamentals and four volumes of applications from environmental biotechnology and safety to medical biotechnology and healthcare this work serves the needs of newcomers as well as established experts combining the latest relevant science and industry practice in a manageable format It is a multi authored work written by experts and vetted by a prestigious advisory board and group of volume editors who are

biotechnology innovators and educators with international influence All six volumes are published at the same time not as a series this is not a conventional encyclopedia but a symbiotic integration of brief articles on established topics and longer chapters on new emerging areas Hyperlinks provide sources of extensive additional related information material authored and edited by world renown experts in all aspects of the broad multidisciplinary field of biotechnology Scope and nature of the work are vetted by a prestigious International Advisory Board including three Nobel laureates Each article carries a glossary and a professional summary of the authors indicating their appropriate credentials An extensive index for the entire publication gives a complete list of the many topics treated in the increasingly expanding field

Pervaporation, Vapour Permeation and Membrane Distillation Angelo Basile,Alberto Figoli,Mohamed Khayet,2015-02-07 Vapour permeation and membrane distillation are two emerging membrane technologies for the production of vapour as permeate which in addition to well established pervaporation technology are of increasing interest to academia and industry As efficient separation and concentration processes they have high potential for use in the energy water chemical food and pharmaceutical sectors Part One begins by covering the fundamentals preparation and characterization of pervaporation before going on to outline the associated systems and applications State of the art uses future trends and next generation pervaporation are then discussed Part Two then explores the preparation characterization systems and applications of membranes for vapour permeation followed by modelling and the new generation of vapour permeation membranes Finally Part Three outlines the fundamentals of membrane distillation and its applications in integrated systems before the book concludes with a view of the next generation Explores three emerging membrane technologies that produce vapour as a permeate Looks at the fundamentals applications state of the art uses and next generation of each technology Provides an authoritative guide for chemical engineers and academic researchers interested in membrane technologies for desalination process water steam treatment water purification VOCs removal and other aspects of pollution control industrial process chemistry renewable energy production or separation and concentration in the food pharmaceutical industries

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

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 and researchers consultants and engineers operators and managers who have an interest in membrane technology Describes developments in transport phenomena in different membrane processes Provides a comprehensive reference book in the membrane field for students and engineers Describes membrane separation fundamentals and relates them to various potential applications *Hollow Fiber Membrane*

Contactors Anil K. Pabby, S. Ranil Wickramasinghe, Kamalesh K. Sirkar, Ana-Maria Sastre, 2020-11-23 This book on hollow fiber contractors presents an up to date compilation of the latest developments and milestones in this membrane technology Hollow Fiber Membrane Contactors Module Fabrication Design and Operation and Potential Applications provides a comprehensive discussion of hollow fiber membrane applications including a few case studies in biotechnology chemical food and nuclear engineering The chapters in this book have been classified using the following based on different ways of contacting fluids with each other Gas liquid contacting Liquid liquid contacting Supported liquid membrane Supported gas membrane Fluid fluid contacting Other features include Discusses using non dispersive solvent extraction hollow fiber strip dispersion hollow fiber supported liquid membranes and role of process intensification in integrated use of these processes Provides technical and economic perspectives with several case studies related to specific scenarios Demonstrates module fabrication design operation and maintenance of hollow fiber contactors for different applications and performance Presents discussion on newer concepts like membrane emulsification membrane nanoprecipitation membrane crystallization and membrane condenser Special focus on emerging areas such as the use of hollow fiber contactor in back end of nuclear fuel cycle membrane distillation dehumidification of air and gas absorption and stripping Discusses theoretical analysis including computational modeling of different hollow fiber membrane processes and presents emphasis on newly developed area of hollow fiber membrane based analytical techniques Presents discussion on upcoming area dealing with hollow fiber contactors based technology in fermentation and enzymatic transformation and in chiral separations This book is equally suited for newcomers to the field as well as for engineers and scientists that have basic knowledge in this field but are interested in obtaining more information about specific future applications *Harnessing Synthetic Nanotechnology-Based Methodologies for Sustainable Green Applications* G rard Eddy Jai Poinern, Suraj Tripathy, Derek Fawcett, 2023-07-24

Nanotechnology is at the forefront of many of the latest developments across science and technology but to generate and deploy these applications macroscopic levels of nanoscale materials have to be carefully generated whilst remaining cost effective These materials need to be reliable consistent and safe and as a general principle industries should consider green sustainable methods in the synthesis of these material and their applications as well This book introduces readers to the field

of green nanotechnologies and their possible applications to create a safer world This accessible and practical guide will be a useful resource for material scientists engineers chemists biotechnologists and scientists working in the space of nanomaterials in addition to graduate students in physics chemistry biomedical sciences and engineering THIS BOOK Presents an accessible introduction to the topic in addition to more advanced material for specialists in the field Covers a broad spectrum of topics in this new field Contains exciting case studies and examples such as quantum dots bionanomaterials and future perspectives Dr G rard E J Poinern holds a Ph D in Physics from Murdoch University Western Australia and a Double Major in Physics and Chemistry Currently he is an Associate Professor in Physics and Nanotechnology in the School of Engineering and Information Technology at Murdoch University He is the director of Murdoch Applied Innovation and Nanotechnology Research Group Murdoch University In 2003 he discovered and pioneered the use of an inorganic nanomembrane for potential skin tissue engineering applications He is the recipient of a Gates Foundation Global Health Grand Challenge Exploration Award for his work in the development of biosynthetic materials and their subsequent application in the manufacture of biomedical devices He is also the author of the 2014 CRC Press experimental textbook A Laboratory Course in Nanoscience and Nanotechnology Associate Professor Suraj Kumar Tripathy is Associate Dean of the School of Chemical Technology at Kalinga Institute of Industrial Technology Bhubaneswar India He currently leads the Chemical Bioprocess Engineering Lab CBEL at KIIT which focuses on achieving sustainability in materials processing and utilization CBEL explores opportunities in valorization of waste materials secondary resources and investigate their applications in catalysis water treatment and biomedical systems CBEL also works closely with industries to develop suitable waste management and resource recycling strategies to optimize the potential of circular economy model Dr Derek Fawcett is the Defence Science Centre research fellow at Murdoch University Australia His research involves the investigation and development of new advanced materials and their use in innovative engineering systems He has published over seventy peer reviewed research papers in international journals and is the co author of four book chapters on applied nanotechnology

Electrically Conductive Membrane Materials and Systems Farah Ahmed,Raed Hashaikeh,Nidal Hilal,2023-05-04

Electrically Conductive Membrane Materials and Systems offers in depth insight into the transformative role of electrically conductive materials in membrane separation processes for desalination and water treatment The book focuses on the intelligent design of conductive membranes and systems fouling and related phenomena fouling control using electrically conductive materials and electrically tunable membrane systems for microfiltration ultrafiltration nanofiltration reverse osmosis and membrane distillation With rising concerns around inaccessibility to freshwater and the ever increasing threats of population growth climate change and urban development the book brings electrically conducting materials to the forefront of membrane separation technology with an emphasis on their role in the mitigation of fouling and related phenomena Electrically conducting materials expand the versatility of membrane technology and ultimately improve access

to safe water The book is important reading for scientists engineers entrepreneurs and enthusiasts from the water industry who seek to familiarize themselves with a groundbreaking area of study within modern desalination and water treatment Explores novel membrane materials and systems from preparation methods materials selection and their application in monitoring fouling control and performance enhancement Examines the mechanism of fouling prevention and cleaning in various electrically conductive materials Evaluates the scalability of antifouling materials and coatings as well as electrically enhanced processes for monitoring and control in membrane separation technology Assesses advantages and limitations of applying electrically conductive membrane systems to fouling control for specific water treatment applications Provides a critical review of scientific literature in the specialized area of electrical conductive materials and systems for membrane technology

Membrane Technologies for Heavy Metal Removal from Water Juhana Jaafar, Asad A. Zaidi, Muhammad Nihal Naseer, 2024-02-12 This book offers lucid treatment of fundamental concepts related to potential applications and prospects of different membranes for wastewater decontamination by removing heavy metals Divided into four sections it provides an overview of different sources of water contamination their impacts on human health and the environment and compares traditional methods used to nullify these impacts Further it covers different mature membrane technologies such as polymeric membranes poly ceramic membranes carbon based membranes and many more followed by pertinent case studies Features Focuses on the removal of heavy metals using membrane based technologies Discusses pertinent criteria to select suitable membranes Includes feasibility studies and applications of different mature and emerging membranes Describes heavy metals occurrence and transport in an aqueous system with an overview of the adverse effects Reviews challenges and opportunities associated with using different membranes This book is aimed at graduate students and researchers in materials science water engineering and wastewater treatment

Polymeric Membrane Formation by Phase Inversion Naser Tavajohi, Mohamed Khayet, 2024-03-19 Polymeric Membrane Formation by Phase Inversion brings together for the first time analysis of all the four main phase inversion techniques Effective parameters in each technique are covered together with the methodologies needed to prepare advanced membranes for specific separations in both liquid and gas phases Roll to roll casting spinning hollow fiber and electrospinning nanofibers are presented along with an analysis of the impact of solvent toxicity membrane production and the source of raw materials on the environment Describing a road map for designing different morphological characteristics to prepare specific membranes for special applications the merits and disadvantages of each method are thoroughly explored and outlined along with the sustainability scalability and economic perspectives of membrane formation Providing easy reference for academic and industry professionals working in membrane engineering this is an essential resource Analyzes membrane formation by phase inversion and modeling Includes state of the art membrane formation methods and related characterization techniques Discusses solvent toxicity and sustainability issues of membrane production

Sustainable Materials and Systems for Water Desalination Inamuddin, Anish

Khan,2021-09-30 This edited book explores the most promising and reliable technological developments expected to impact on the next generation of desalination systems The book includes research studies which takes the reader on a fascinating walk through the multidisciplinary world of membrane science applied to water treatment Concerning the ultimate technological advancement the book seeks to investigate how to bridge the gap between the laboratory scale and the applicability to industry

Comprehensive Membrane Science And Engineering Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Comprehensive Membrane Science And Engineering**," written by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we shall delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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