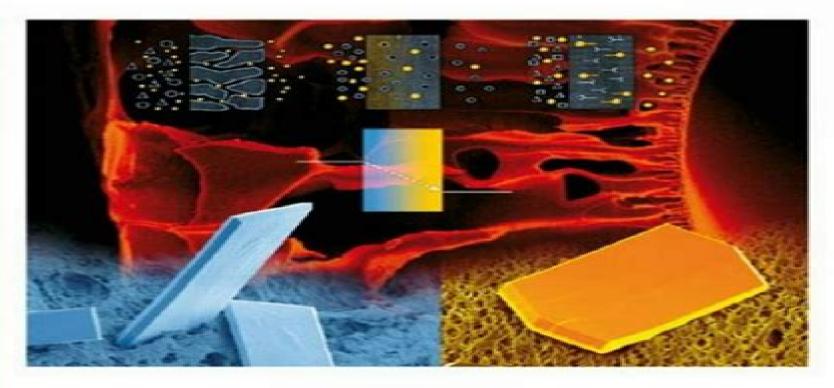


# Membrane Operations

Innovative Separations and Transformations



**Angelo Basile, Catherine Charcosset** 

Membrane Operations Enrico Drioli, Lidietta Giorno, 2009-06-08 The only book dedicated to membrane technology covering all the different innovative membrane areas from separation to contactors and regarding them as unit operations in process engineering The specific potential of these advanced new operations is analyzed by different experts in the field with regard to their basic aspects and in particular to their potential application for a sustainable growth and improvement in the quality of life To this end much emphasis is placed on the role of membrane engineering as a dominant technology in such areas as water desalination or artificial organs The editors are well known and recognized within the community while the active experience of the authors provides a highly practical industrially relevant approach to the subject Topics considered in detail include membranes in fuel cells membranes in MEMS and OLEDS as well as integrated membrane systems

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 Membrane Reactor Engineering Angelo Basile, Marcello De Falco, Gabriele Centi, Gaetano Iaquaniello, 2016-08-01 Uniquely focussed on the engineering aspects of membrane reactors Provides tools for analysis with specific regard to sustainability Applications include water treatment wastewater recycling desalination biorefineries agro food production Membrane reactors can bring energy saving reduced environmental impact and lower operating costs 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 cereamic and carbon for membrane reactors in detail Reactor modelling simulation and optimisation is also discussed

Ultradünne Filme und Membranen aus Koordinationspolymeren und ihr Stofftransportverhalten Gülara Krieger,2017-02-27 In der vorliegenden Arbeit wird die Synthese neuer Polystyrol und Poly N isopropylacrylamid basierter Copolymere mit Terpyridin bzw Bis methylbenzimidazolyl pyridin Liganden in der Seitenkette und ihre Verwendung zur Herstellung selbstorganisierter Multischichtfilme und membranen beschrieben Die Multischichten wurden durch alternierende koordinative Schicht fr Schicht Adsorption der ligandenhaltigen Copolymere und Zink II oder Kupfer II ionen unter Bildung von Koordinationspolymernetzwerken hergestellt UV und QCM Messungen zeigen dass die Zinkionen bei Eintauchen der Filme in 10 gew % w ssrige Natriumsulfatl sung ausgewaschen und bei Behandlung mit 0 05 molarer Zinkacetatl sung in Methanol Dimethylformamid 1 1 Volumenverh Itnis wieder eingebaut werden Die Multischichtfilme zeigen einen permselektiven Transport von Ionen und kleinen aromatischen Molek len unter Dialysebedingungen Der Ionentransport wird durch einen Siebeffekt und elektrostatische Absto ung an den komplexierten Zinkionen der Membran bestimmt der Transport der Neutralmolek le allein durch den Siebeffekt Es wurden Trennfaktoren a NaCl BaCl2 bis 4 2 und a Naphthalin Perylen bis 4 8 gefunden Der Ionentransport wurde auch unter Elektrodialysebedingungen untersucht

Chemical Engineering Essentials, Volume 1 Raj K. Arya, George D. Verros, J. Paulo Davim, 2025-05-19 In an era of rapid innovation and with a focus on sustainability Chemical Engineering Essentials provides a definitive guide to mastering the discipline Divided into two volumes this series offers a seamless blend of foundational knowledge and advanced applications to address the evolving needs of academia and industry This volume lays a strong foundation with topics such as material and energy balances thermodynamics phase equilibrium fluid mechanics transport phenomena and essential separation processes such as distillation and membrane technologies Volume 2 builds on these principles delving into reaction engineering reactor modeling with MATLAB and ASPEN PLUS material properties process intensification and nanotechnology It also addresses critical global challenges emphasizing green chemistry waste minimization resource

recovery and workplace safety Together these volumes provide a holistic understanding of chemical engineering equipping *Integrated Membrane Systems and* readers with the tools to innovate and lead in a dynamic and sustainable future *Processes* Angelo Basile, Catherine Charcosset, 2016-01-26 The book examines the possibility of integrating different membrane unit operations microfiltration ultrafiltration nanofiltration reverse osmosis electrodialysis and gas separation in the same industrial cycle or in combination with conventional separation systems It gives careful analysis of the technical aspects and the possible fields of industrial development The book reviews many original solutions in water desalination agro food productions and wastewater treatments highlighting the advantages achievable in terms of product quality compactness rationalization and optimization of productive cycles reduction of environmental impact and energy saving Also included are examples of membrane reactors and their integration with a fuel cell polymeric membranes in the integrated gasification combined cycle power plants integrating a membrane reformer into a solar system and potential application of membrane integrated systems in the fusion reactor fuel cycle With detailed analysis and broad coverage the book is divided into two sections Bio applications and Inorganic Applications Treatise on Water Science ,2010-09-01 Water quality and management are of great significance globally as the demand for clean potable water far exceeds the availability Water science research brings together the natural and applied sciences engineering chemistry law and policy and economics and the Treatise on Water Science seeks to unite these areas through contributions from a global team of author experts The 4 volume set examines topics in depth with an emphasis on innovative research and technologies for those working in applied areas Published in partnership with and endorsed by the International Water Association IWA demonstrating the authority of the content Editor in Chief Peter Wilderer a Stockholm Water Prize recipient has assembled a world class team of volume editors and contributing authors Topics related to water resource management water quality and supply and handling of Sorbents Materials for Controlling Environmental Pollution Avelino wastewater are treated in depth Nunez-Delgado, 2021-02-16 Sorbents Materials for Controlling Environmental Pollution Current State and Trends presents data on current use and future trends regarding sorbent materials employed against soil water and air pollution The book is organized first by use and research for a variety of geographic areas It will then focus on different sorbent materials and their uses followed by various pollutants and their management Including updated and extensive data from an assortment of sources the book is organized to be very accessible including with an interactive table to help identify the results of appropriate sorbents for each environmental compartment The growing concern regarding soil water and air pollution all over the world has implications for climate change and sustainability making Sorbents Materials for Controlling Environmental Pollution Current State and Trends an important reference for environmental scientists to identify tools for moving forward in solving these problems Includes data and examples from various geographic locations worldwide Synthesizes data for a variety of sorbent material from different sources Presents data for various kinds of pollutants across

environmental spheres including soil water and air Utilizes an interactive table for quicker access to data and results Sustainable Membrane Technology for Water and Wastewater Treatment Alberto Figoli, Alessandra Criscuoli, 2017-09-19 This book analyses the sustainability of membrane operations applied on an industrial scale as well as that of those under investigation on lab pilot scales covering also the preparation of both polymeric and inorganic membranes It presents reverse osmosis in desalination membrane bioreactors for municipal wastewater treatment and pressure driven industrial wastewater treatment in agrofood and textile fields as examples of industrial membrane operations Regarding the membrane processes still on a lab pilot scale the analysis includes membrane operations for the recovery of valuable products from wastewater streams for the removal of toxic compounds from water wastewater and for zero liquid discharge approaches in desalination The book offers a useful guide for scientists and engineers working in various fields including membrane technology separation desalination and wastewater treatment Alberto Figoli and Alessandra Criscuoli are both Senior Researchers at the Institute on Membrane Technology ITM CNR Italy **Functional Nanostructured Membranes** Enrico Drioli, Lidietta Giorno, Annarosa Gugliuzza, 2018-12-07 A membrane is considered the heart of every separation process because it is developed as a nanostructured nanofunctionalized thin barrier that controls the exchange between two phases not only by external forces and under the effect of fluid properties but also through the intrinsic characteristics of the membrane material itself This book compiles cutting edge research in membrane science nanomaterials and nanotechnologies mainly from interdisciplinary research groups at the Institute on Membrane Technology National Research Council ITM CNR Italy working on membrane design membrane process engineering and selected materials and practices for enhanced transport mass charge and energy It covers topics on the design of new nanostructured membranes with improved properties together with the identification of efficient transport property relationships It shares and strengthens the knowledge of making membrane technology a much more powerful and eco friendly route enabling one to provide prospective solutions and benefits for numerous fields of applications where traditional separation technologies suffer from many deficiencies It is a great reference for researchers and investigators graduate PhD and postgraduate students and end users interested in membrane science and technology nanomaterials eco friendly separation chemistry biology and process engineering Polyvinylchloride-based Blends Visakh P. M., Raluca Nicoleta Darie-Nita, 2021-09-23 This book summarizes many of the recent research accomplishments in the area of polyvinylchloride PVC based blends and their preparation characterization and applications Various sub topics are addressed such as the state of the art of PVC based blends new challenges and opportunities emphasis being given to the types and sizes of components fillers and optimum compositions of PVC blends their processing and structure properties relationships modification compatibilization methods and possible applications PVC thermoplastic based nano micro and macro blends PVC membranes bio based plasticizers and PVC blends with components from renewable resources are reported The various chapters in this book are contributed by

prominent researchers from industry academia and government private research laboratories across the globe It covers an up to date record on the major findings and observations in the field of PVC based blends Basic Equations of the Mass Transport Through a Membrane Layer Endre Nagy, 2012 With a detailed analysis of the mass transport through membrane layers and its effect on different separation processes this book provides a comprehensive look at the theoretical and practical aspects of membrane transport properties and functions Basic equations for every membrane are provided to predict the mass transfer rate the concentration distribution the convective velocity the separation efficiency and the effect of chemical or biochemical reaction taking into account the heterogeneity of the membrane layer to help better understand the mechanisms of the separation processes The reader will be able to describe membrane separation processes and the membrane reactors as well as choose the most suitable membrane structure for separation and for membrane reactor Containing detailed discussion of the latest results in transport processes and separation processes this book is essential for chemistry students and practitioners of chemical engineering and process engineering Detailed survey of the theoretical and practical aspects of every membrane process with specific equations Practical examples discussed in detail with clear steps Will assist in planning and preparation of more efficient membrane structure separation Application of Nanotechnology in Membranes for Water Treatment Alberto Figoli, Jan Hoinkis, Sacide Alsoy Altinkaya, Jochen Bundschuh, 2017-07-14 The book focuses on Application of Nanotechnology in Membranes for Water Treatment but not only provides a series of innovative solutions for water reclamation through advanced membrane technology but also serves as a medium to promote international cooperation and networking for the development of advanced membrane technology for Universal well being and to achieve the common goal of supplying economically environmentally and societally sustainable freshwater and better sanitation systems This book is unique because the chapters were authored by established researchers all around the globe based on their recent research findings In addition this book provides a holistic coverage of membrane development for water treatment from the membrane preparation and characterizations to the performance for specific processes and applications Since that water scarcity has become a global risk and one of the most serious challenges for the scientific community in this century the publication of this book is therefore significant as it will serve as a medium for a good reference of an alternative solution in water reclamation This book will provide the readers with a thorough understanding of the different available approaches for manufacturing membranes both with innovative polymeric systems and inorganic nano materials which could give enhanced functionalities catalytic and antimicrobial activities to improve the performance of the existing membranes It will be useful for leading decision and policy makers water sector representatives and administrators policy makers from the governments business leaders business houses in water treatment and engineers scientists from both industrialized and developing countries as well **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

**Environmental Pollution and Remediation** Ram Prasad, 2021-04-16 This book presents state of the art environmental remediation processes Environmental protection and management is a global concern especially in the context of industrial regions Over the years several conventional engineering based physicochemical decontamination methods have used in the remediation of polluted sites However these methods are expensive and have limited efficiency Drawing on research and examples from around the world this book offers a comprehensive review of and insights into green technologies and sustainable remediation alternatives It discusses the emerging importance of nanotechnology chemo and biosensors indicator species microbe based remediation of organic compounds and ex situ remediation methods Addressing the growing global need for a holistic overview of the environmental remediation of polluted sites it will appeal to teachers researchers scientists capacity builders and policymakers It also serves as additional reading material for undergraduate and graduate students of biotechnology and environmental sciences Micro/Nano Science and Engineering Y. Al-Douri, 2014-04-17 Selected peer reviewed papers from the Joint International Conference on Nanoscience Engineering and Management BOND21 August 19 21 2013 Penang Malaysia Sustainable Production of Biofuels Using Intensified Processes Juan Gabriel Segovia-Hernández, Eduardo Sanchez-Ramirez, Heriberto Alcocer-Garcia, Ana Gabriela Romero-Garcia, Juan José Quiroz-Ramirez, 2022-09-28 This book describes for first time the synthesis and intensified process design in the production of top biofuels The production of biofuels is not new In 2019 global biofuel production levels reached 1 841 thousand barrels of oil equivalent per day in stark comparison to the 187 thousand barrels of oil equivalent per day that was produced in 2000 Growth has largely been driven by policies that encourage the use and production of biofuels due to the perception that it could provide energy security and reduce greenhouse gas emissions in relevant sectors From a technical point of view almost all fuels from fossil resources could be substituted by their bio based counterparts However the cost of bio based production in many cases exceeds the cost of petrochemical production Also biofuels must be proven to perform at least as good as the petrochemical equivalent they are substituting and to have a lower environmental impact The low price of crude oil acted as a barrier to biofuels production and producers focussed on the specific attributes of biofuels such as their complex structure to justify production costs Also the consumer demand for environmentally friendly products population growth and limited

supplies of non renewable resources has now opened new windows of opportunity for biofuels The industry is increasingly viewing chemical production from renewable resources as an attractive area for investment This book uniquely introduces the application of new process intensification techniques that will allow the generation of clean efficient and economical processes for biofuels in a competitive way in the market Sea Water Desalination in Microgrids Enrique Rosales-Asensio, Francisco José García-Moya, David Borge-Diez, Antonio Colmenar-Santos, 2022-02-21 This book investigates the sustainability performance of system that use microgrids in desalination processes Climate change may be especially dramatic in its effects on island environments In these environments aguifers and wells could become over exploited resulting the use of desalination plans The synergies between water energy and food sectors have been identified as vital in achieving the United Nation's Sustainable Development Goals The book explores desalination and microgrids technically as well the economic and legal aspects that must be considered in order explore their techno economic feasibility analyzing how to improve the desalination process proposing a method to locate and size a microgrid Other synergies between the water energy and food system are discussed and the benefits to society that might result in these systems Also the lessons learned are highlighted in the context of how they may apply to other sustainable enterprises **Biomaterials for Stem Cell Therapy** Loredana De Bartolo, Augustinus Bader, 2013-01-28 Focused on stem cell applications this book bridges the fields of biomaterials offering new insights into constructing and regenerating tissues and organs Its unique feature is linking diseases of the human body to current thinking on how to deal with them in the context of current concepts and technologies by means of an in depth focus on biomaterials The book assembles recent advances and covers a range of topics related to stem cell biology biomaterials and technological approaches such as bioreactors written by top researchers in the field Stem cells of both embryonic and adult origin are discussed with applications ranging but not limited to nerve regeneration liver pancreas skin trachea cartilage and bone repair and cardiovascular therapy Developments in the field reflecting the design and construction of the human body and its principal anatomy are discussed from a materials point of view The book will be a valuable tool for biomaterial scientists tissue engineers clinicians as well as stem cell biologists involved in basic research and applications of adult and embryonic stem cells It will also be a source of reference for students in biotechnology biomedical engineering biology biochemistry materials sciences pharmaceuticals and veterinary and human medicine

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