



Membrane Distillation Principles And Applications

**Angelo Basile, Alberto Figoli, Mohamed
Khayet**

Membrane Distillation Principles And Applications:

Membrane Distillation Mohamed Khayet Souhaimi,Mohamed Khayet,Takeshi Matsuura,2011-10-13 Modern membrane engineering is critical to the development of process intensification strategies and to the stimulation of industrial growth Membrane Distillation MD is a broad reference that covers specific information on membranes available and methods for MD membrane preparation and characterization The book offers an introduction to the terminology and fundamental concepts as well as a historical review of MD development Commercial membranes used in MD as well as laboratory made membranes including emerging membranes are described in detail and illustrated by a number of clear and instructive schematic drawings and images A comprehensive review on the development of MD membranes MD modules MD membrane characterization MD configurations applications in different areas and theoretical models Introduction to the terminology and fundamental concepts associated with MD as well as an historical review of MD development Description of commercial membranes used in MD as well as laboratory made membranes including emerging membranes

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

Understanding Membrane

Distillation and Osmotic Distillation Robert A. Johnson,Minh H. Nguyen,2017-03-09 This book addresses principles and practical applications of membrane distillation and osmotic distillation separation technologies which are gaining increasing attention due to their advantages over conventional concentration processes Addresses membrane and osmotic distillation two closely related and novel processes that offer several advantages over conventional concentration processes Has a widespread impact and application of the technology in industries such as food environment and nuclear clean up

containment Covers theoretical aspects of both processes the properties of hydrophobic membranes process economics integrated processes and future prospects Caters the presentation caters for the diversity of readership with respect to links with membrane technologies Corrosion and Fouling Control in Desalination Industry Viswanathan S. Saji,Abdelkader A.

Meroufel,Ahmad A. Sorour,2020-02-05 This book addresses two critical problems that plague materials that make up components in both desalination and cooling water systems corrosion and fouling The book addresses various types and components of industrial desalination technologies with solutions for controlling corrosion scaling and biofouling Issues unique to desalination systems vital for the production of clean water are considered as well Green technologies are discussed throughout along with environmental and economic considerations The book presents solutions to the problems encountered by internal and external parts of these systems and will aid professionals that design operate and maintain them It will be valuable to professionals in the materials corrosion electrochemical and wastewater industries as well as chemical engineers Addresses the corrosion issues facing the conventional and modern water desalination systems Discusses the causes and remediation of problems caused by corrosion scaling and biofouling in water treatment Offers green solutions thereby minimizing environmental impact while increasing control and productivity of water systems Suitable for professionals working with water desalination plants materials scientists and corrosion engineers **Membrane and**

Membrane Reactors Operations in Chemical Engineering Adolfo Iulianelli,2019-06-14 This Special Issue is aimed at highlighting the potentialities of membrane and membrane reactor operations in various sectors of chemical engineering based on application of the process intensification strategy In all of the contributions the principles of process intensification were pursued during the adoption of membrane technology demonstrating how it may lead to the development of redesigned processes that are more compact and efficient while also being more environmental friendly energy saving and amenable to integration with other green processes This Special Issue comprises a number of experimental and theoretical studies dealing with the application of membrane and membrane reactor technology in various scientific fields of chemical engineering such as membrane distillation for wastewater treatment hydrogen production from reforming reactions via inorganic membrane and membrane photoassisted reactors membrane desalination gas liquid phase membrane separation of CO₂ and membrane filtration for the recovery of antioxidants from agricultural byproducts contributing to valorization of the potentialities of membrane operations 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

PHARMACEUTICAL ENGINEERING Mrs. Swathi Bagad, Miss.

Spandhana Pasi, Rekha Tarasingh Rajput, Ms. Araf Mahefuzabibi H, Ms Ayesha Nisar Shaikh, Welcome to Fundamentals and Applications of Process Engineering in Pharmaceutical Plants From Fluid Flow to Corrosion Management This book offers a comprehensive overview of key process engineering concepts essential for pharmaceutical manufacturing We begin by exploring fundamental topics such as fluid flow size reduction heat transfer and distillation Subsequent sections cover drying mixing filtration and centrifugation technologies The final unit addresses the crucial aspects of materials selection and corrosion management in plant construction Designed for students professionals and researchers this book combines theoretical principles with practical applications to provide a clear understanding of process engineering in the pharmaceutical industry We hope it serves as a valuable resource for your studies and professional practice Thank you to everyone who supported and contributed to this work

Membrane Engineering in the Circular Economy Adolfo

Iulianelli, Alfredo Cassano, Carmela Conidi, Konstantinos Petrotos, 2022-04-12 Membrane Engineering in the Circular Economy Renewable Sources Valorization in Energy and Downstream Processing in Agro food Industry describes the modification of the general concept of waste including waste valorization as added value products that are useful for energy production and biotechnology industries Speaking to the relevance of this new vision the book highlights the fundamentals of membrane operations in the exploitation of renewable sources for energy production and the valorization of agro food waste at the industrial level This book is an excellent resource for researchers biologists membranologists and engineers in chemistry biochemical engineering food sciences and the agro food refinery industry Discusses membrane engineering for agro food wastes transformation into added value products Presents circular and zero waste economy principles pursued by membrane technology and applied to the agro food industry Includes potentialities of agro food wastes for renewable and energy

production via membrane operations

Wells's Principles and Applications of Chemistry David Ames Wells,1872

Mechanical Materials and Manufacturing Engineering II Xiong Zhou,Hong Hua Tan,2012-12-13 Selected peer reviewed papers from the 2012 International Conference on Mechanical Materials and Manufacturing Engineering ICMMME 2012 October 5 6 2012 Dalian China

Well's Principles and Applications of Chemistry, for the Use of Academies, High Schools, and Colleges David Ames Wells,1874

Removal of Pollutants from Saline Water Shaik Feroz,Detlef W.

Bahnemann,2021-12-22 Removal of Pollutants from Saline Water Treatment Technologies provides a comprehensive understanding of technologies that are currently adopted in the treatment of pollutants present in saline water systems It provides information on the treatment technologies for saline water systems including seawater brackish water oil produced water and other industrial saline wastewaters FEATURES Presents information exclusively for saline water pollutant removal Introduces current treatment technologies and addresses why and how the techniques differ between fresh and salt water Offers an inclusive overview of physicochemical biological membrane and advanced oxidation treatment technologies Features various perspectives and case studies from relevant global experts Provides a comprehensive one stop source for the treatment of pollutants in all saline water systems Aimed at students academicians researchers and practicing engineers in the fields of chemical civil marine and environmental engineering who wish to be acquainted with the most recent developments in the treatment of pollutants present in saline water systems Prof Dr Shaik Feroz works at Prince Mohammad Bin Fahd University Kingdom of Saudi Arabia He has 30 years of experience in teaching research and industry He has more than 190 publications to his credit in journals and conferences of international repute He was awarded Best Researcher by Caledonian College of Engineering for the year 2014 Prof Dr Detlef W Bahnemann is Head of the Research Unit Photocatalysis and Nanotechnology at Leibniz University Hannover Germany Director of the Research Institute Nanocomposite Materials for Photonic Applications at Saint Petersburg State University Russian Federation and Distinguished Professor at Shaanxi University of Science and Technology in Xi an People s Republic of China His research topics include photocatalysis photoelectrochemistry solar chemistry and photochemistry focused on synthesis and physical chemical properties of semiconductor and metal nanoparticles His 500 plus publications have been cited more than 65 000 times h index 100

Membrane Distillation: Materials and Processes Enrcio Drioli,Young Moo Lee,2020-05-06

Desalination is imperative to mitigate the global water scarcity as it produces drinking water from unpotable water Currently reverse osmosis membrane processes are widely used and account for 60% of desalination plants globally as they have lower energy requirements than other techniques such as thermal desalination Another promising alternative to desalination is membrane distillation MD which has been highlighted as one of the most promising and cost effective desalination technologies over the last five decades MD is a thermally driven desalination process that uses microporous and hydrophobic membranes through which only vapor can pass Because non volatile ions cannot pass through the membrane MD

theoretically achieves 100% salt rejection. In addition MD is superior to other techniques as it is conducted at relatively low temperature and pressure and is less sensitive to the feed concentration. MD is a desalination process that uses the vapor pressure difference between the feed and permeate as the driving force through the membranes. Over 2 800 scientific publications appeared in Web of Science as of September 2019 over 400 just in 2019 describing the current state of development and potential future applications of MD. Although these publications provide excellent knowledge regarding MD they are rather fragmented and it is difficult to gain a complete overview of the basic principles and functions of membranes for MD configurations and their application to real plants. In this book we introduce MD from the invention of this technique to the recent developments in membranes and processes. The membrane materials and configurations of MD processes are systematically discussed along with an introduction to real pilot plants that have been installed and tested in the field and an economic analysis of MD. The objective of this book is to provide a short but reasonably comprehensive introduction to MD to graduate students and persons with an engineering or natural science background to gain a basic understanding of MD and the associated materials configurations and applications without studying a large number of different reference books.

Understanding Membrane Distillation and Osmotic Distillation Robert Arthur Johnson, 2017 This book addresses principles and practical applications of membrane distillation and osmotic distillation separation technologies which are gaining increasing attention due to their advantages over conventional concentration processes. Emerging Technologies for Sustainable Desalination Handbook Gnaneswar Gude, 2018-05-01 Emerging Technologies for Sustainable Desalination Handbook provides professionals and researchers with the latest treatment activities in the advancement of desalination technology. The book enables municipalities and private companies to custom design sustainable desalination plants that will minimize discharge energy costs and environmental footprint. Individual case studies are included to illustrate the benefits and drawbacks of each technique. Sections discuss a multitude of recently developed advanced processes along with notable advances made in existing technologies. These processes include adsorption forward osmosis, humidification and dehumidification, membrane distillation, pervaporation and spray type thermal processes. In addition, theoretical membrane materials such as nanocomposite and carbon nanotube membranes are also explored. Other chapters cover the desalination of shale gas produced water, forward osmosis for agriculture, desalination for crop irrigation and seawater for sustainable agriculture. International in its coverage, the chapters of this handbook are contributed by leading authors and researchers in all relevant fields. Expertly explains recent advances in sustainable desalination technology including nanocomposite membranes, carbon nanotube membranes, forward reverse osmosis and desalination by pervaporation. Provides state of the art techniques for minimizing system discharge energy cost and environmental footprint. Includes individual case studies to illustrate the benefits and drawbacks of each technique. Discusses techniques for the custom design of sustainable desalination plants for municipalities, private companies and industrial operations. **Ullmann's Encyclopedia of**

Industrial Chemistry Barbara Elvers, Fritz Ullmann, 1990 Supervised by an internationally acclaimed advisory board the articles are written by over 3000 international experts from industry and universities thoroughly edited to uniform style and layout in an in house office All figures are re drawn to give a maximum of clarity and uniformity in style Compared to the prior edition almost 600f the material has either been newly written or thoroughly updated The rest has been checked for validity and newer references have been added throughout *Ullmann's Encyclopedia of Industrial Chemistry*, 2003

Membranes and Membrane Technologies III Juan Manuel Peralta-Hernández, 2024-03-15 Aggregated Book

Desalination, 1997 *Application of Membrane Technologies for Liquid Radioactive Waste Processing*, 2004 Membrane separation processes have made impressive progress since the first synthesis of membranes almost 40 years ago This progress was driven by strong technological needs and commercial expectations As a result the range of successful applications of membranes and membrane processes is continuously broadening In addition increasing application of membrane processes and technologies lies in the increasing variations of the nature and characteristics of commercial membranes and membrane apparatus The objective of the report is to review the information on application of membrane technologies in the processing of liquid radioactive waste The report covers the various types of membranes equipment design range of applications operational experience and the performance characteristics of different membrane processes The report aims to provide Member States with basic information on the applicability and limitations of membrane separation technologies for processing liquid radioactive waste streams

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