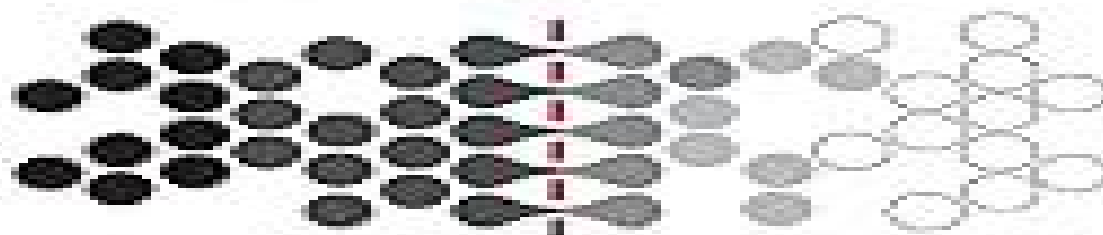




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**MEMBRANE CONTACTORS:
FUNDAMENTALS, APPLICATIONS AND
POTENTIALITIES**

E. Drioli, A. Criscuoli & E. Curcio

Membrane Contactors Fundamentals Applications And Potentialities Volume 11 Membrane Science And Technology

R. Klaassen



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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

Membrane Technologies Katarzyna Staszak,Karolina Wieszczycka,Bartosz Tylkowski,2022-10-03 Membrane techniques are an excellent alternative to traditional methods of purification and separation This book covers issues related to the most recent developments in the field of membrane techniques The latest scientific research and their potential applications in industrial solutions are described In addition currents trends in food beverages technologies and biomedicine are discussed Moreover the book emphasizes recent advancements in design of membrane systems used either for separation or creation of mixtures from the perspective of industry 4 0 and data management **Encyclopedia of Information**

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Natural Gas: Formation, Processing, and Applications. Volume 2: Natural Gas Sweetening Mohammad Reza Rahimpour, Mohammad Amin Makarem, Maryam Meshksar, 2024-02-10 *Advances in Natural Gas Formation Processing and Applications* is a comprehensive eight volume set of books that discusses in detail the theoretical basics and practical methods of various aspects of natural gas from exploration and extraction to synthesizing processing and purifying producing valuable chemicals and energy The volumes introduce transportation and storage challenges as well as hydrates formation extraction and prevention Volume 2 titled *Natural Gas Sweetening* introduces in detail different natural gas sweetening methods The book covers absorption with different solvents such as alkalis amin blends ionic liquids etc which is one of the important sweetening techniques as well as natural gas sweetening with adsorption based technologies utilizing various materials including zeolites carbonaceous sorbents metal oxides etc Is also discusses membrane based processes with various types such as ionic liquid polymeric MOF mixed matrix dense metal membranes and includes novel technologies for sweetening natural gas by using plasma and supersonic separators Introduces natural gas sweetening concepts and challenges Describes various absorption and adsorption processes for natural gas sweetening Includes various membrane technologies for natural gas sweetening **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 *American Book Publishing Record* ,2006 *Membrane Contactor Technology* Mohammad Younas,Mashallah Rezakazemi,2022-04-18 An eye opening exploration of membrane contactors from a group of industry leaders In *Membrane Contactor Technology* Water Treatment Food Processing Gas Separation and Carbon Capture an expert team of researchers delivers an up to date and insightful explanation of membrane contactor technology including transport phenomena design aspects and diverse process applications The book also includes explorations of membrane synthesis process and module design as well as rarely discussed process modeling and simulation techniques The authors discuss the technical and economic aspects of this increasingly important technology and examine the geometry flow energy and mass transport and design aspects of membrane contactor modules They also cover a wide range of application opportunities for this technology from the materials sciences to process engineering *Membrane Contactor Technology* also includes A thorough introduction to the membrane contactor extraction process including dispersion free membrane extraction processes and supported liquid membrane processes Comprehensive explorations of membrane transport theory including discussions of diffusional mass and heat transfer modeling as well as numerical modeling In depth examinations of module configuration and geometry including design and flow configuration Practical discussions of modes or operation including membrane distillation osmotic evaporation and forward osmosis Perfect for process engineers biotechnologists water chemists and membrane scientists *Membrane Contactor Technology* also belongs in the libraries of chemical engineers polymer chemists and chemists working in the environmental industry **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 *Unconfined Membrane Contactors* Drew William Johnson,1997 Study on Membrane Contactors

Francesco Vestrelli,2006 **The Membrane Contactor : / R. Klaassen,2000** **Fundamental Study of Hydrophobic Microporous Membrane Contactors for the Recovery of Insoluble Oil from Oil-water Mixtures** Aurore Yvonne Joelle Mercelat,2016 Insoluble oil and water mixtures occur in many industries such as food metallurgical or biofuel production In particular as we strive to meet global energy demands the associated risks and waste management of the oil and gas industry must be addressed Technologies capable of separating oil and water efficiently are needed for the treatment of highly variable oil and gas streams such as produced and flowback waters or oil spills The goal of this doctoral work was to advance the understanding of a membrane contactor process for the recovery of insoluble oil from water The hydrophobic hollow fiber membrane had been successfully tested in our laboratories for oil recovery from algae slurries However a thorough study to understand the fundamental mechanisms of the separation process was necessary for engineering design and process optimization First pure oil experiments were performed to define baseline performance attainable with the studied membrane contactors Then oil water separation experiments were conducted to quantify the effect of key operating parameters Two relevant ranges of oil feed concentration were identified For high oil feed concentration increases in transmembrane pressure and influent flow rate were confirmed to increase oil flux while higher viscosity lowered oil permeation across the fiber walls However an important finding was that for dilute mixtures decreases in transmembrane pressure and higher viscosity increased oil permeation The results of this research support the conclusion that oil separation within the particular geometry and design of the membrane contactor is due to both internal coalescence of oil droplets and selective permeation of oil over water The stability of an oil film on the fibers was critical to enhance effective surface area of the membrane contactor In addition the technology showed great promise for long term high oil removal with no signs of viscous fouling as often observed in hydrophilic membranes Finally a model describing the process was developed and can be used as a guideline for membrane sizing and process engineering design **Membrane Contactors to Replace**

Conventional Scrubbers Steen Brummerstedt Iversen,Danmarks Ingeniørakademi, Lyngby,FLS Miljø A/S, Valby,1994

Polymer Science and Technology Anthony R. Cooper,1980

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