

# Membranes for Industrial Wastewater Recovery and Re-use



Edited by  
**Simon Judd and  
Bruce Jefferson**

# Membranes For Industrial Wastewater Recovery And Reuse

**Rajindar Singh**



## **Membranes For Industrial Wastewater Recovery And Reuse:**

*Membranes for Industrial Wastewater Recovery and Re-use* S. Judd, Bruce Jefferson, 2003-04-25 There is increasing political and environmental pressure on industry to clean up the water which it uses in many processes and to re use this water where possible This cleaning is done using specially developed industrial membranes and this book covers the types and design of membranes how they work and in which industries they are used Special attention is paid to the textile food beverage pharmaceutical oil and pulp and paper industries where such membranes are in regular use **Membranes for Industrial Wastewater Recovery and Re-use** S. Judd, Bruce Jefferson, 2003-04-25 In a world in which legislation promotes the recycling of wastewater new technologies are emerging that can fulfil such a remit The papers that comprise this volume explore those technologies and explain what is driving and what is preventing their widespread implementation

Membranes for Industrial Wastewater Recovery and Re-use Simon Judd, Bruce Jefferson, 2003 In a world in which legislation promotes the recycling of wastewater new technologies are emerging that can fulfil such a remit The papers that comprise this volume explore those technologies and explain what is driving and what is preventing their widespread implementation *Resource Recovery in Industrial Waste Waters* Ali Khadir, Khum Gurung, Mika Sillanpää, 2023-07-20 *Resource Recovery in Industrial Waste Waters* provides a holistic approach for discovering and harnessing valuable resources from industrial wastewaters the cutting edge technologies required and a discussion on the new findings In three volumes the books stress the importance of contaminated waters remediation including surface waters municipal or industrial wastewaters and treating these waters as a new source of nutrients minerals and energy It introduces polluted waters as new and sustainable sources rather than seeing wastewaters as only a source of hazardous organic and inorganic matters Sections discuss wastewater treatment and recovery and contribute to generate a sustainable approach of wastewater by providing the main advantages and disadvantages of both wastewater polluted water treatment and recovery Reviews the current status of industrial wastewater treatment methods Discusses the growing need of resource recovery from industrial wastewater along with the challenges Describes the importance of water reuse for combating water scarcity by describing current techniques and challenges Evaluates the potential of the current market and status towards industrial wastewater resource recovery Considers cutting edge technologies for resource recovery Contains comprehensive discussions on possibility of almost all recoverable resources from industrial wastewater Waste Not! How Nanotechnologies Can Increase Efficiencies Throughout Society Michael Berger, 2025-06-25 There is a pressing global issue of waste and its multi fold impact on society the environment and the economy This comprehensive guide details the extensive applications of nanotechnologies as a promising solution presenting a structured examination of how these technological advancements contribute to substantial waste reduction and more efficient waste management processes Furthermore the book explores emerging trends offering readers a well rounded view and preparing them for future

advancements in nanotechnology and sustainable waste management thereby ensuring continued relevance and utility in the evolving technological landscape Written by an authority figure in the applications of nanotechnologies this book is suitable for a global audience and is a valuable resource for individuals policymakers and stakeholders across various countries

**Water Recycling and Resource Recovery in Industry** Piet Lens,L. W. Hulshoff Pol,Peter A. Wilderer,Takashi Asano,2002-03-31 Water Recycling and Resource Recovery in Industry Analysis Technologies and Implementation provides a definitive and in depth discussion of the current state of the art tools and technologies enabling the industrial recycling and reuse of water and other resources The book also presents in detail how these technologies can be implemented in order to maximize resource recycling in industrial practice and to integrate water and resource recycling in ongoing industrial production processes Special attention is given to non process engineering aspects such as systems analysis software tools health regulations life cycle analysis economic impact and public participation Case studies illustrate the huge potential of environmental technology to optimise resource utilisation in industry The large number of figures tables and case studies together with the book s multidisciplinary approach makes Water Recycling and Resource Recovery in Industry Analysis Technologies and Implementation the perfect reference work for academics professionals and consultants dealing with industrial water resources recovery Contents Part I Industrial reuse for environmental protection Part II System analysis to assist in closing industrial resource cycles Part III Characterisation of process water quality Part IV Technological aspects of closing industrial cycles Part V Examples of closed water cycles in industrial processes Part VI Resource protection policies in industry

**Handbook of Membrane Separations** Anil Kumar Pabby,Syed S.H. Rizvi,Ana Maria Sastre Requena,2008-07-07 The Handbook of Membrane Separations Chemical Pharmaceutical and Biotechnological Applications provides detailed information on membrane separation technologies as they have evolved over the past decades To provide a basic understanding of membrane technology this book documents the developments dealing with these technologies It explo

**Technologies for the Treatment and Recovery of Nutrients from Industrial Wastewater** Val del Río, Ángeles,Campos Gómez, José Luis,Mosquera Corral, Anuska,2016-10-21 The production of wastewater from various human and industrial activities has a harsh impact on the environment Without adequate treatment the disposal of this wastewater poses a threat to the quality of water globally Technologies for the Treatment and Recovery of Nutrients from Industrial Wastewater investigates emergent research and best practices within the field of wastewater management Highlighting novel technological tools in wastewater treatment effective nutrient removal technologies and innovative solutions to quality water preservation practices this book is a critical reference source for professionals scientists academics and students

**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

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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 of 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

**Micellar Enhanced Ultrafiltration** Sirshendu De,Sourav Mondal,2012-06-04 A response to increasingly stringent regulation of pollution and toxicity levels in industrial waste discharge Micellar Enhanced Ultrafiltration Fundamentals Applications offers the most complete book available on the benefits and use of micellar enhanced ultrafiltration MEUF to achieve continuous removal of organic and inorganic pollutant

**Current Trends and Future Developments on (Bio-) Membranes** Angelo Basile,Kamran Ghasemzadeh,2023-09-14 Current Trends and Future Developments on Bio Membranes Recent Achievements for Ion Exchange Membranes focuses on introducing and analyzing ion exchange membranes performance and overviewing recent achievements in the structural development of ion exchange membranes in various applications Hence this book is a key reference text for R D managers in who are interested in the development of ion exchange membrane technologies as well as academic researchers and postgraduate students working in the wider area of strategic treatments separation and purification processes Reviews the ion exchange membranes including fundamentals and processes Provides thorough coverage of transport aspects and fundamentals of various ion exchange membranes systems such as fuel cells electrodialysis and more Describes the two main categories of ion exchange membranes inorganic and organic Covers numerous new applications of ion exchange membranes

**Advances in Membrane Technologies for Water Treatment** Angelo Basile,Alfredo Cassano,Navin Kumar Rastogi,2015-02-28 Advances in Membrane Technologies for Water Treatment Materials Processes and Applications provides a detailed overview of advanced water treatment methods involving membranes which are increasingly seen as effective replacements for a range of conventional water treatment methods The text begins with reviews of novel membrane materials and advances in membrane operations then examines the processes involved with improving membrane performance Final chapters cover the application of membrane technologies for use in water treatment with detailed discussions on municipal wastewater and reuse in the textile and paper industries Provides a detailed overview of advanced water treatment methods involving membranes Coverage includes advancements in membrane materials improvement in membrane performance and their applications in water treatment Discusses the use of membrane technologies in the production of drinking water desalination wastewater treatment and recovery

Integrated Industrial Wastewater Reuse by Heat Recovery Yaroslav

Chudnovsky, Aleksandr P. Kozlov, Gas Technology Institute, 2015      *Membrane-based Hybrid Processes for Wastewater Treatment* Maulin P. Shah, Susana Rodriguez-Couto, 2021-05-27

Membrane Based Hybrid Processes for Wastewater Treatment analyzes and discusses the potential of membrane based hybrid processes for the treatment of complex industrial wastewater the recovery of valuable compounds and water reutilization In addition recent and future trends in membrane technology are highlighted Industrial wastewater contains a large variety of compounds such as heavy metals salts and nutrients which makes its treatment challenging Thus the use of conventional water treatment methods is not always effective Membrane based hybrid processes have emerged as a promising technology to treat complex industrial wastewater Discusses the properties mechanisms advantages limitations and promising solutions of different types of membrane technologies Addresses the optimization of process parameters Describes the performance of different membranes Presents the potential of Nanotechnology to improve the treatment efficiency of wastewater treatment plants WWTPs Covers the application of membrane and membrane based hybrid treatment technologies for wastewater treatment Includes forward osmosis electrodialysis and diffusion dialysis Considers hybrid membrane systems expanded to cover zero liquid discharge salt recovery and removal of trace contaminants      Membrane Technology: Applications to Industrial Wastewater Treatment Ana Caetano, 1995 Presents case studies of how new membrane separation techniques are being used to minimize the environmental impact of pollution from textile tannery pulp and paper metal finishing and electroplating food and other industries in order to comply with increasing by stricter European standards The 13 lectures are from an advanced course given in Sipra Italy in October 1992 Addressed to engineers technical managers and graduate students No index Annotation copyright by Book News Inc Portland OR      Selected Water Resources Abstracts , 1982      Membrane Technology and Engineering for Water Purification Rajindar Singh, 2014-09-25

Membrane Technology and Engineering for Water Purification Second Edition is written in a practical style with emphasis on process description key unit operations systems design and costs plant equipment description equipment installation safety and maintenance process control plant start up and operation and troubleshooting It is supplemented by case studies and engineering rules of thumb The author is a chemical engineer with extensive experience in the field and his technical knowledge and practical know how in the water purification industry are summarized succinctly in this new edition This book will inform you which membranes to use in water purification and why where and when to use them It will help you to troubleshoot and improve performance and provides case studies to assist understanding through real life examples Membrane Technology section updated to include forward osmosis electrodialysis and diffusion dialysis Hybrid Membrane Systems expanded to cover zero liquid discharge salt recovery and removal of trace contaminants Includes a new section on plant design energy and economics      **Ceramic Membranes** Vitaly Gitis, Gadi Rothenberg, 2016-06-27 This textbook gives a clear and coherent overview of ceramic membranes from preparation methods all the way to applications and economics The authors who are known for their clear

writing style combine their expertise in environmental engineering and porous materials to cover a wide range of examples with over 1000 references Chapters 1 2 and 3 give a detailed introduction to membrane synthesis transport mechanisms and characterisation Building on this Chapter 4 outlines the state of the art in ceramic membrane applications including fuel cells water purification gas separation and the making of cheeses fruit juice wine and beer The final chapter deals with the economics of ceramic membrane processes using industrial case studies to examine market barriers and opportunities Ceramics are known throughout history but now after thousands of years they re making a comeback Indeed they may hold the key for addressing three of today s biggest challenges clean energy drinking water and air pollution This book is a must have for anyone who wants to enter the ceramic membranes field or keep up to date with the latest developments and applications This textbook gives a clear and coherent overview of ceramic membranes from preparation methods all the way to applications and economics The authors who are known for their clear writing style combine their expertise in environmental engineering and porous materials to cover a wide range of examples with over 1000 references Chapters 1 2 and 3 give a detailed introduction to membrane synthesis transport mechanisms and characterisation Building on this Chapter 4 outlines the state of the art in ceramic membrane applications including fuel cells water purification gas separation and the making of cheeses fruit juice wine and beer The final chapter deals with the economics of ceramic membrane processes using industrial case studies to examine market barriers and opportunities Ceramics are known throughout history but now after thousands of years they re making a comeback Indeed they may hold the key for addressing three of today s biggest challenges clean energy drinking water and air pollution This book is a must have for anyone who wants to enter the ceramic membranes field or keep up to date with the latest developments and applications



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