

MEMBRANE PROCESSES FOR WATER REUSE



Anthony M. Wachinski

Membrane Processes For Water Reuse

S. Judd, Bruce Jefferson

Membrane Processes For Water Reuse:

Membrane Processes for Water Reuse ,2012 *Membrane Processes for Water Reuse* Anthony M. Wachinski,2012-09-03 COST EFFECTIVE MEMBRANE SOLUTIONS FOR WATER AND WASTEWATER REUSE APPLICATIONS Written by a water and wastewater industry expert with more than 35 years of experience this book describes how membrane technology can be used alone coupled with aerobic or anaerobic processes or as integrated membrane systems to process treated municipal effluent or industrial wastewater for discharge recycle or reuse After reviewing chemistry fundamentals and basic principles Membrane Processes for Water Reuse covers microfiltration ultrafiltration nanofiltration reverse osmosis and membrane coupled bioprocesses The design sizing and selection of membrane technologies for water recycling and reuse applications is discussed in detail Wastewater reuse case studies and example problems illustrate the concepts presented in this practical authoritative guide Coverage includes Water reuse overview Water quality Basic concepts of membrane filtration processes Low pressure membrane technology microfiltration and ultrafiltration Diffusive membrane technologies nanofiltration and reverse osmosis Membrane coupled bioprocess Design of membrane systems for water recycling and reuse Future trends and challenges Hybrid Membrane Processes for Water Reuse Marc Pidou,2006 Water recycling is now widely accepted as a sustainable option to respond to the general increase of the fresh water demand water shortages and for environment protection Because greywater represents up to 70% of domestic wastewater volume but contains only 30% of the organic fraction and from 9 to 20% of the nutrients Kujawa Roeleveld and Zeeman 2006 it is seen as one of the most appropriate sources to be treated and reuse A broad range of technologies has been used for greywater recycling including soil filters Itayama et al 2004 membranes Ahn et al 1998 and biological aerated filters Surendran and Wheatley 1998 However at small scale such as individual household the variability in strength and flow of the greywater and potential shock loading affect the efficacy of biological technologies Moreover simple physical processes efficient to reduce the physical pollution within the greywater are often limited to degrade the organic fraction Jefferson et al 2000 There is then a need for alternative technologies that would not be affected by such problems and that could provide the treatment required for reuse This project investigated the potential of alternative technologies for greywater recycling Four chemical systems coagulation MIEX adsorption and membrane chemical reactor based on an advanced oxidation process TiO₂ UV were assessed at bench scale Coagulation and MIEX were found to achieve a limited treatment of the greywater and consequently to be not suitable in case of strict reuse standards Whereas adsorption with activated carbon and membrane chemical reactor provided a very good treatment of the greywater with an advantage to the advanced oxidation process as it could meet the strictest standard for reuse for BOD turbidity and suspended solids as well as for the total and faecal coliforms Following this results the membrane chemical reactor was tested at pilot scale and compared to a benchmark system a membrane bioreactor Both systems achieved a very good treatment of the greywater however the MBR was found to be a

more robust technology with all the samples tested for BOD and turbidity below the most stringent standards. The main difference between the two systems was observed in terms of the hydraulic conditions. Indeed, important membrane fouling was occurring in the MCR. A more detailed study of membrane fouling in the MCR was carried out for a better understanding of the phenomena occurring. It was found that little fouling occurred when TiO₂ was dispersed in clean water. Alternatively, a significant fouling could be observed when TiO₂ was coated with specific products suggesting that a reaction occurs when TiO₂ is in solution with particular chemicals changing its fouling propensity. Overall, the MBR was found to be the best technology in terms of performance and robustness. However, it was also found that spiking of domestic products can alter its performance due to their toxicity. Chemical systems which are not affected by toxicity seem to be a good alternative to biological systems. However, none of the systems tested here could match the effluent quality achieved by the MBR.

Alternatively, the MCR achieved good treatment performance and limitation of the membrane fouling would make it a very good alternative.

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.

Hybrid Membrane Processes for Water Reuse, 2004 Water recycling is now widely accepted as a sustainable option to respond to the general increase of the fresh water demand, water shortages and for environment protection. Because greywater represents up to 70% of domestic wastewater volume but contains only 30% of the organic fraction and from 9 to 20% of the nutrients. Kujawa, Roeleveld and Zeeman 2006 it is seen as one of the most appropriate sources to be treated and reused. A broad range of technologies has been used for greywater recycling including soil filters Itayama et al 2004 membranes Ahn et al 1998 and biological aerated filters Surendran and Wheatley 1998.

However, at small scale such as individual household the variability in strength and flow of the greywater and potential shock loading affect the efficacy of biological technologies. Moreover, simple physical processes efficient to reduce the physical pollution within the greywater are often limited to degrade the organic fraction Jefferson et al 2000. There is then a need for alternative technologies that would not be affected by such problems and that could provide the treatment required for reuse. This project investigated the potential of alternative technologies for greywater recycling. Four chemical systems coagulation, MIEX adsorption and membrane chemical reactor based on an advanced oxidation process TiO₂ UV were assessed at bench scale. Coagulation and MIEX were found to achieve a limited treatment of the greywater and consequently to be not suitable in case of strict reuse standards. Whereas adsorption with activated carbon and membrane chemical reactor provided a very good treatment of the greywater with an advantage to the advanced oxidation process as it could meet the strictest standard for reuse for BOD, turbidity and suspended solids as well as for the total and faecal coliforms. Following this results the membrane chemical reactor was tested at pilot scale and compared to a benchmark system a membrane b

Membrane

Processes for Water Reuse Anthony Wachinski,2012-10-23 COST EFFECTIVE MEMBRANE SOLUTIONS FOR WATER AND WASTEWATER REUSE APPLICATIONS Written by a water and wastewater industry expert with more than 35 years of experience this book describes how membrane technology can be used alone coupled with aerobic or anaerobic processes or as integrated membrane systems to process treated municipal effluent or industrial wastewater for discharge recycle or reuse After reviewing chemistry fundamentals and basic principles Membrane Processes for Water Reuse covers microfiltration ultrafiltration nanofiltration reverse osmosis and membrane coupled bioprocesses The design sizing and selection of membrane technologies for water recycling and reuse applications is discussed in detail Wastewater reuse case studies and example problems illustrate the concepts presented in this practical authoritative guide Coverage includes Water reuse overview Water quality Basic concepts of membrane filtration processes Low pressure membrane technology microfiltration and ultrafiltration Diffusive membrane technologies nanofiltration and reverse osmosis Membrane coupled bioprocess Design of membrane systems for water recycling and reuse Future trends and challenges

Membrane

Technology in Water Treatment in the Mediterranean Region Antonia Lorenzo,Anibal Vega,2010-11-24 The complex dimensions of the Mediterranean freshwater resources their fragility and their scarcity have been highlighted and have received considerable attention as a primary priority issue politically technically and scientifically Membrane technology with its different applications in water treatment desalination potable water treatment wastewater treatment and reuse has showed to be a powerful tool to abate the water crisis in the Mediterranean region The primary objective of Membrane Technology in Water Treatment in the Mediterranean Region is to support the current research and development activities in membrane technology focused on water treatment in the Mediterranean area providing an international stage to local research organisations and universities devoted to the development of membrane technologies in the following areas municipal and industrial wastewater treatment surface water purification and brackish and sea water treatment for drinking purpose It covers the identification mapping and evaluation of the on going research in order to propose future research and co operation strategies Visit the IWA WaterWiki to read and share material related to this title <http://www.iwawaterwiki.org/xwiki/bin/view/Articles/MembraneTechnologyinWaterTreatmentintheMediterraneanRegion>

Water Treatment

Membrane Processes Lyonnaise des eaux-Dumez (Firm),1996 With global demand for water in the 20th century expected to increase ten fold this work focuses on the membrane filtration issues for drinking water

Membrane Technology: Applications to Industrial Wastewater Treatment Ana Caetano,M.N. de Pinho,Enrico Drioli,Herbert Muntau,2012-12-06 This publication presents the lectures given at the course on Advanced Separation Technology for Industrial Waste Minimization Environmental and Analytical Aspects 13 15 October 1992 Ispra Italy organized jointly by the Technical University of Lisbon University of Calabria and the Environment Institute of the Joint Research Centre of the Commission of the European Communities at Ispra This course is integrated in a programme for education and training in Advanced Separation

Technology for Industrial Waste Minimization supported by the Community Action Programme for Education and Training for Technology COMETT II The lecture material is based on case studies of importance to textile tanneries pulp and paper metal finishing and electroplating food and other industries Environmental regulations have lead industrial engineers to search for more efficient less energy consuming and less waste producing processes Membrane based separation processes contributed to recover water raw materials and energy and to achieve simultaneously pollution control Along this book emphasis will be given to this fast growing area of process technology Water Reuse Water Resources Scientific Information Center,1973

MEMBRANE PROCESSES - Volume III,2010-11-05 Membrane Processes is a component of Encyclopedia of Water Sciences Engineering and Technology Resources in the global Encyclopedia of Life Support Systems EOLSS which is an integrated compendium of twenty one Encyclopedias These volumes discuss matters of great relevance to our world on desalination which is a critically important as clearly the only possible means of producing fresh water from the sea for many parts of the world The two volumes present state of the art subject matter of various aspects of Membrane Processes such as History And Current Status Of Membrane Desalination Processes Membrane Science And Reclamation Membrane Characterization Principles And Practices Of Reverse Osmosis Reverse Osmosis Introduction Hollow Fiber Membranes Preparation And Characterization Of Ionexchange Membranes Preparation And Characterization Of Micro And Ultrafiltration Membranes Membrane Distillation Desalination By Membrane Distillation Pervaporation Dialysis And Diffusion Dialysis Donnan Dialysis Modeling And Calculation Of Pressure Driven Membrane Processes Survey Of Theoretical Approaches To Modeling Pressure Driven Membrane Processes Submodels For Transport In Phases Reverse Osmosis Process And System Design Practical Aspects Of Large Scale Reverse Osmosis Applications Health Safety And Environmental Considerations Membrane Separation Technologies Concentration Of Liquid Foods Mass Transfer Operation Membrane Separations Mass Transfer Operations Hybrid Membrane Processes Recent Advances In Membrane Science And Technology In Seawater Desalination With Technology Development In The Middle East And Singapore These volumes are aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy and Decision Makers **Handbook of Membrane Separations** Anil K. 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 explores chemical pharmaceutical food processing and biotechnological applications of membrane processes ranging from selective separation to solvent and material recovery This text also presents in depth knowledge of membrane separation mechanisms transport models membrane permeability computations membrane types and modules as well as membrane reactors **Membrane Treatment of Secondary Effluent for Subsequent Use** Roderick D. Reardon,Francis Digiano,Michael

Aitken,Sudan Paranjape,Jeong Hwan Kim,2005-01-01 There is considerable interest worldwide in water reuse to conserve freshwater resources Reclaimed wastewater can be used for a variety of purposes in agriculture industry municipal systems and recreation Each application requires a minimum quality of water which in the U S can vary from conventional secondary effluent without further treatment to water that approaches the highest purity achievable Membrane processes can be specified to remove virtually the entire range of contaminants found in wastewater so that they can be selected to achieve the water quality requirements of almost any reuse application Economics will determine however when membrane treatment is feasible The first phase of this project involved documenting the state of knowledge and experience in membrane applications in wastewater treatment and more specifically in water reuse Such experience is far more limited than experience with membrane applications in drinking water treatment After providing an overview of water reuse and membrane processes this report covers state regulations and guidelines on water reuse membrane fouling methods of testing membranes at bench and pilot scales removal of microbial contaminants and management of concentrates Detailed findings from a literature review and a survey of full scale facilities employing membrane processes for wastewater treatment are provided The report concludes with an evaluation of the potential role of membrane treatment for each of the major categories of water reuse

Electrodialysis and Water Reuse Andréa Moura Bernardes,Marco Antônio Siqueira Rodrigues,Jane Zoppas Ferreira,2013-08-30 This book presents novel techniques to evaluate electrodialysis processes to synthesize ionic membranes and to characterize their properties It shows the potential use of membrane process to the treatment of effluents generated in many industrial sectors such as refineries leather industries mining and electroplating processes The book is based on the results obtained by the author s research group during the past decade It is useful for students researchers and engineers interested in membrane technologies for water reuse

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

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 Membrane Technology and Water Reuse in a Dairy Industry Douglas Felipe Galvão, 2018 The dairy industry uses substantial amount of water to achieve the production process especially for the maintenance of hygiene and cleanliness conditions With this is generating considerable volume of wastewater requiring treatment to meet the discharge standards before discarded With the shortage of water resources and charging for water use minimizing water consumption in industries is of paramount importance to maintain its market competitiveness In this sense there has been increasing interest in the reuse of wastewater in order to decrease the good water consumption by processes that do not require such high quality feature Membrane separation processes are highlighted in generating good quality reuse water that can meet the demand of various industrial processes Thus the present study aimed to evaluate the membrane separation processes for the treatment of dairy industry effluent to reuse

Electrochemical Membrane Technology for Water and Wastewater Treatment

Zhiwei Wang, Kwang-Ho Choo, Chuyang Y. Tang, T David

Waite, 2022-04-04 Electrochemical membrane technology has drawn extensive attention worldwide during the past decade in water and wastewater treatment Coupling electrochemical process with membrane technology not only enables a higher removal or decomposition of pollutants in waters but also ensures a more effective control of membrane fouling as well as a more highly selective separation process The recent development of electrochemical membrane technology has also extended its applications in desalination energy harvest and resource recovery from seawater and wastewaters Electrochemical Membrane Technology for Water and Wastewater Treatment consolidates state of the art research developments in electrochemical membrane technology in water reclamation and sustainability in terms of fundamental theories membrane and electrode materials reactor designs fouling control mechanisms and applications Electrochemical Membrane Technology for Water and Wastewater Treatment also introduces fundamental theories and applications of electrochemical membrane technology The knowledge gaps and future research perspectives in electrochemical membrane technology are also addressed This book is an excellent resource for the understanding of fundamental theories latest developments and future prospects in electrochemical membrane technology which can benefit a broad audience of researchers and engineers working in water purification membrane technology and electrochemical process Consolidates scattered knowledge of electrochemical membrane technology into a more accessible resource Provides a comprehensive review of fundamental theories membrane materials and module design as well as the latest developments of electrochemical membrane technology Provides the state of art review on the applications of electrochemical membrane technology Includes detailed discussion on the challenges and prospects of electrochemical membrane technology in different applications Membrane Technology in

Water and Wastewater Treatment Peter Hillis, 2007-10-31 Presenting a useful reference to the current state of membrane technology and its likely future growth this book covers all aspects of the technology and its applications in the water industry Drawing on the experience of international experts *Membrane Technology in Water and Wastewater Treatment* encompasses many practical applications of specific membranes including MF UF NF RO and EDR in the treatment of ground and surface water backwash water seawater and industrial and domestic wastewater Novel applications process enhancements and the latest systems are also discussed This book is an excellent guide to membrane technology and will be of great interest to water companies industrialists legislative bodies and anyone with an interest in the technology or its applications

Membrane Processes Robert Rautenbach, R. Albrecht, 1989 The fundamental processes of mass transport in membranes are outlined in this book which also develops the applications of these processes in industry Local transport phenomena and the behaviour of individual elements the technical unit and the module are all examined

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