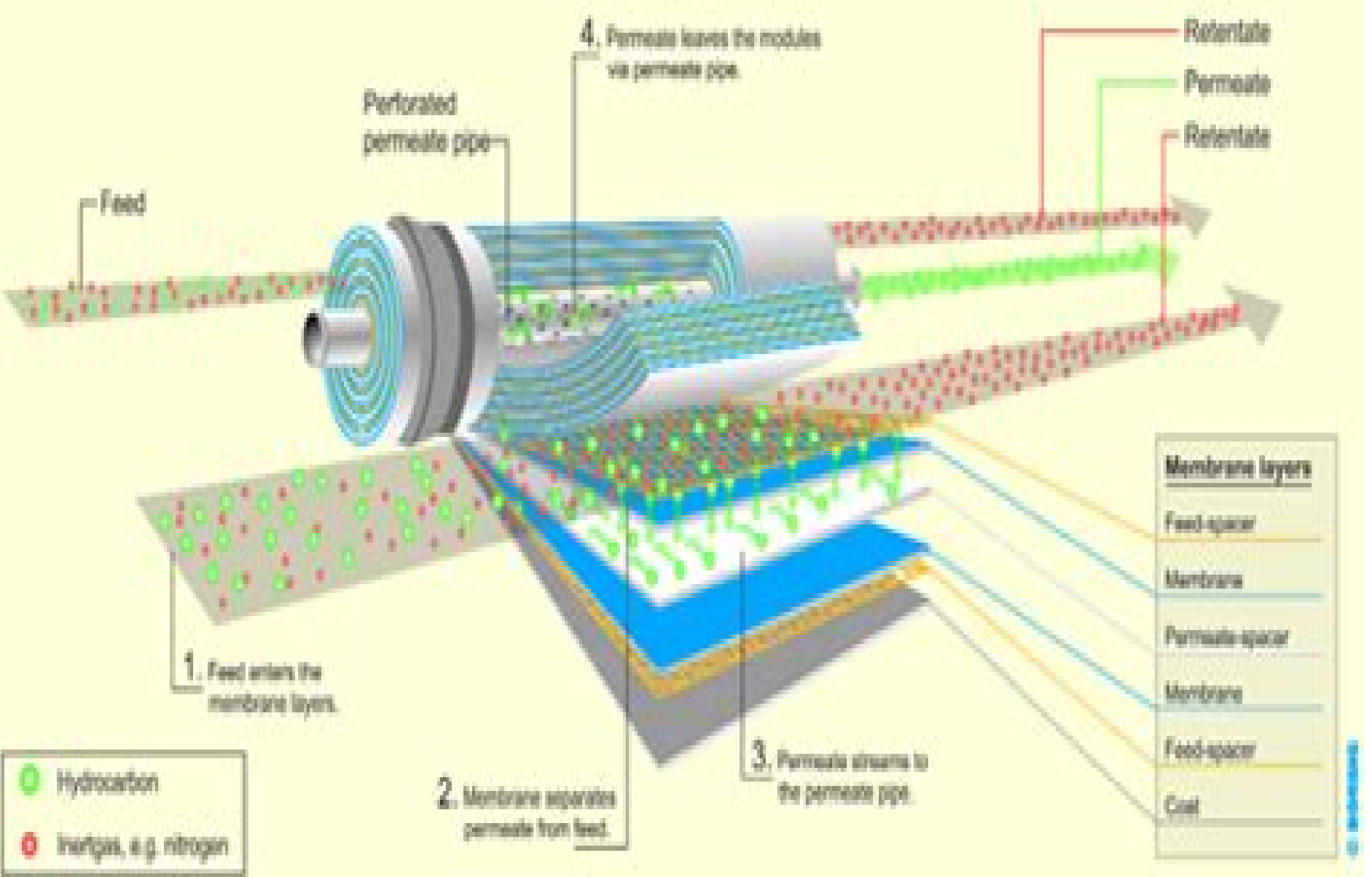


Structure and function of a spiral wound module



Membrane Technology In The Chemical Industry 89 Ii E 28

Enrico Drioli, Lidietta Giorno



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Membrane Technology and Applications Richard W. Baker, 2023-12-18 Membrane Technology and Applications Internationally acknowledged text on separation membrane technology presenting current theory and practice plus manufacturing and applications The 4th Edition of Membrane Technology and Applications presents an authoritative up to date overview of separation membranes their theoretical underpinnings manufacture and use beginning with a series of general chapters on membrane preparation transport theory and concentration polarization then surveying the major areas of membrane application in separate chapters Written in a readily accessible style each chapter offers a thorough treatment of its subject from historical and theoretical backgrounds through to current and potential applications Topics include reverse osmosis ultrafiltration microfiltration gas separation pervaporation electrodialysis coupled and facilitated transport and medical applications of membranes This new edition has been comprehensively updated with substantial new material figures and references throughout to reflect the latest developments in the field Major changes include A new chapter on transport mechanisms in finely microporous membranes with focus on gas transport A new chapter on membrane contactors A substantially expanded section on hyperfiltration applications including pharmaceutical applications in the reverse osmosis chapter Expanded treatment of membrane bioreactors plus a new section on biotechnology applications in the ultrafiltration chapter A new section in the gas separation chapter devoted to carbon dioxide capture from industrial process emissions including power plant emissions Research areas that the author would work on if he were once again a 21 year old graduate student Written by a leading expert with 50 years of experience Membrane Technology and Applications provides balanced coverage of all aspects of the field and is essential reading for all membrane enthusiasts from neophyte graduate student to academic researcher to seasoned industry professional

Subject Guide to Books in Print, 1996 Yearbook of the United Nations, Volume 43 (1989) United Nations, 2023-09-14 Fully indexed the 1989 edition of the Yearbook is the most comprehensive and authoritative reference publication about the work of the United Nations other international organizations and related bodies The book is designed not just for use by diplomats officials and scholars but also by other researchers writers journalists teachers and students This volume of the Yearbook details the activities of the United Nations its many organs agencies and programmes working together to rekindle a new form of multilateral cooperation for a better world It records the diverse and globe encompassing activities of the United Nations and its enduring efforts to deal with the world's pressing concerns particularly matters of international peace and security disarmament human rights the settlement of regional conflicts economic and social development the preservation of the environment control of drugs and narcotic substance abuse crime prevention adequate shelter youth and the ageing and humanitarian assistance for refugees as well as disaster relief

Books in Print of the United Nations System United Nations. Advisory Committee for the Co-ordination of Information Systems, 1992 **United Nations Publications Catalogue**, 1991 *Chromatographic and*

Membrane Processes in Biotechnology C.A. Costa, Joaquim S. Cabral, 2012-12-06 Separation processes in biotechnology are of increasing industrial importance since they entail the major costs of bioprocessing especially when high purity is required Chromatography and membranes are two of the most important technologies used for direct treatment of fermentation broths as well as for high resolution steps in product purification The theoretical foundations of chromatographic and membrane processes are well understood for the case of small molecules Nevertheless there is a need to adapt and further develop that knowledge to the processing of large biological molecules This is being achieved with the contribution of other areas like molecular biology and materials science The objective of this NATO Advanced Study Institute is to present an updated treatment of the fundamentals of chromatographic and membrane processes with special relevance in bioprocessing This volume collects the lectures presented at this Institute The lectures are arranged in five chapters Chapter I deals with chromatographic processes covering topics like equilibrium kinetics and contacting devices Membrane processes and some applications in biotechnology are treated in chapter 2 Chapter 3 is devoted to affinity chromatographic and membrane processes Chapter 4 considers the current developments on chromatographic supports and membranes both from the constitutive materials and from points of view Scale up optimization and reaction separation integration are the topics covered in chapter 5 We are very grateful to all lecturers and participants that made possible this Institute Financial support from NATO Scientific Affairs Division INIC JNICT FLAD University of Aveiro and DRT Aveiro is gratefully acknowledged

Process Synthesis and Process Intensification Ben-Guang Rong, 2017-09-25 Process synthesis and process intensification are becoming state of the art scientific fields that provide the methods and tools to improve process technologies in terms of high energy efficiency low capital investment low emissions improved safety and less hazardous byproducts to achieve sustainable products and processes The book covers manufacturing processes from both fossil and biomass based feedstocks for graduate students Monthly Catalog of United States Government Publications , 1989

Handbook of Membrane Separations Anil K. Pabby, Syed S.H. Rizvi, Ana-Maria Sastre, 2015-04-09 The Handbook of Membrane Separations Chemical Pharmaceutical Food and Biotechnological Applications Second Edition provides detailed information on membrane separation technologies from an international team of experts The handbook fills an important gap in the current literature by providing a comprehensive discussion of membrane application *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

Handbook of Chlor-Alkali Technology Thomas F. O'Brien, Tilak V. Bommaraju, Fumio Hine, 2007-12-31 Foreword It is surprising that we had to wait so long for a new book that gives a comprehensive treatment of chlor alkali manufacturing technology Technologists are largely still making do with the classical book edited by Sconce but that is more than thirty years old At the time of its publication metal anodes were just beginning to appear and ion exchange membrane technology was confined to laboratories The various encyclopedias of industrial technology have more up to date information but they are necessarily limited in their scope Schmittinger recently provided an excellent shorter treatment of the broad field of chlorine technology and applications After discussing electrolysis and the principal types of cell this too gives rather brief coverage to brine and product processing It then follows on with descriptions of the major derivatives and direct uses of chlorine and a discussion of environmental issues The last feature named above has relieved the authors of this work of the obligation to cover applications in any detail Instead they provide a concentrated treatment of all aspects of technology and handling directly related to the products of electrolysis It covers the field from a history of the industry through the fundamentals of thermodynamics and electrochemistry to the treatment and disposal of the waste products of manufacture Membrane cells are considered the state of the art but the book does not ignore mercury and diaphragm cells They are considered both from a historical perspective and as examples of current technology that is still evolving and improving Dear to the heart of a director of Euro Chlor the book also pays special attention to safe handling of the products the obligations of Responsible Care and process safety management Other major topics include corrosion membranes electrolyzer design brine preparation and treatment and the design and operation of processing facilities Perhaps uniquely the book also includes a chapter on plant commissioning The coverage of membranes is both fundamental and applied The underlying transport processes and practical experience with existing types of membrane both are covered The same is true of electrolyzer design The book explores the basic electrode processes and the fundamentals of current distribution in electrolyzers as well as the characteristics of the leading cell designs The authors have chosen to treat the critical subject of brine treatment in two separate chapters The chapter on brine production and treatment first covers the sources of salt and the techniques used to prepare brine It then explains the mechanisms by which brine impurities affect cell performance and outlines the processes by which they can be removed or controlled While pointing out the lack of fundamental science in much of the process it describes the various unit operations phenomenologically and discusses methods for sizing equipment and choosing materials of construction The chapter on processing and handling of products is similarly comprehensive Again it is good to see that the authors have included a lengthy discussion of safe methods and facilities for the handling of the products particularly liquid chlorine While the discussion of the various processing steps

includes the topic of process control there is also a separate chapter on instrumentation which is more hardware oriented Other chapters deal with utility systems cell room design and arrangement with an emphasis on direct current supply alternative processes for the production of either chlorine or caustic without the other the production of hypochlorite industrial hygiene and speculations on future developments in technology There is an Appendix with selected physical property data The authors individually have extensive experience in chlor alkali technology but with diverse backgrounds and fields of specialization This allows them to achieve both the breadth and the depth which are offered here The work is divided into five volumes successively treating fundamentals brine preparation and treatment production technology support systems such as utilities and instrumentation and ancillary topics Anyone with interest in the large field of chlor alkali manufacture and distribution and indeed in industrial electrochemistry in general will find something useful here The work is recommended to students chlor alkali technologists electrochemists engineers and producers shippers packagers distributors and consumers of chlorine caustic soda and caustic potash This book is thoroughly up to date and should become the standard reference in its field Barrie S Gilliatt Executive Director Euro Chlor **Membrane Handbook** Winston Ho,Kamalesh Sirkar,2012-12-06 Membrane processes have wide industrial ap This handbook reviews the published litera plications covering many existing and emerging ture presents an in depth description of com uses in the chemical petrochemical petroleum mercialized membrane processes and gives a state of the art review of new membrane pro environmental water treatment pharmaceutic al medical food dairy beverage paper tex cess concepts under development It is intended tile and electronic industries The existing ap to be a single source of underlying principles membranes membrane modules process de plications include 1 dialysis for the purifica tion of human blood the artificial kidney 2 sign applications and cost estimates It is also electrodialysis for the desalination of brackish a first attempt to bridge the gap between the water to produce potable water 3 reverse theory and practice osmosis for the desalination of seawater 4 There are several groups which may benefit ultrafiltration for the concentration of large pro from this handbook It can be used as educa tein molecules from cheese casein whey and tional material for industrial personnel engaged milk and 5 microfiltration for the sterilization in membrane separations For scientists and of pharmaceutical and medical products beer engineers active in research and development in wine and soft drinks Since membrane pro synthetic membranes it will serve as a single cesses generally have low capital investment as source of reference for the entire field Scientific and Technical Aerospace Reports ,1990 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

Palladium Membrane Technology for Hydrogen Production, Carbon Capture and Other Applications A Doukelis,K

Panopoulos,A Koumanakos,E Kakaras,2014-10-20 Thanks to their outstanding hydrogen selectivity palladium membranes have attracted extensive R D interest They are a potential breakthrough technology for hydrogen production and also have promising applications in the areas of thermochemical biorefining This book summarises key research in palladium membrane technologies with particular focus on the scale up challenges After an introductory chapter Part one reviews the fabrication of palladium membranes Part two then focuses on palladium membrane module and reactor design The final part of the book reviews the operation of palladium membranes for synthesis gas hydrogen production carbon capture and other applications Review of manufacture and design issues for palladium membranes Discussion of the applications of palladium membrane technology including solar steam reforming IGCC plants NGCC plants CHP plants and hydrogen production Examples of the technology in operation Monthly Catalogue, United States Public Documents ,1989 **Energy**

Research Abstracts ,1990 **Gas Separation Membranes** Ahmad Fauzi Ismail,Kailash Chandra Khulbe,Takeshi

Matsuura,2015-04-28 This book describes the tremendous progress that has been made in the development of gas separation membranes based both on inorganic and polymeric materials Materials discussed include polymer inclusion membranes PIMs metal organic frameworks MOFs carbon based materials zeolites as well as other materials and mixed matrix membranes MMMs in which the above novel materials are incorporated This broad survey of gas membranes covers material theory modeling preparation characterization for example by AFM IR XRD ESR Positron annihilation spectroscopy tailoring of membranes membrane module and system design and applications The book is concluded with some perspectives about the future direction of the field *Industrial Chemical Separation* Timothy C. Frank,Bruce S. Holden,2023-08-07 A fresh new

treatment written by industry insiders this work gives readers a remarkably clear view into the world of chemical separation The authors review distillation extraction adsorption crystallization and the use of membranes providing historical perspective explaining key features and offering insights from personal experience The book is for engineers and chemists with current or future responsibility for chemical separation on a commercial scale in its design operation or improvement or for anyone wanting to learn more about chemical separation from an industrial point of view The result is a compelling survey of popular technologies and the profession one that brings the art and craft of chemical separation to life Ever wonder how popular separation technologies came about how a particular process functions or how mass transfer units differ from theoretical stages Or perhaps you want some pointers on how to begin solving a separation problem You will find clear explanations and valuable insights into these and other aspects of industrial practice in this refreshing new survey *Time Strategies, Innovation, and Environmental Policy* Christian Sartorius,Stefan Zundel,2005-01-01 Timeliness is a particularly relevant issue in the field of innovation and diffusion research This book originates from the observation that innovations are time critical and asks the question when and how do windows of opportunity for new environmental technologies emerge and why do they disappear again By analysing these windows of opportunity and possible time strategies for innovation policies

this book represents a highly topical contribution to a front line issue in environmental and innovation research The theoretical framework is applied to well investigated and highly informative case studies to produce an interesting insightful and coherent volume Joseph Huber Martin Luther University Halle Germany This book is the first attempt to systematically introduce the aspect of time into economic and environmental innovation policy The authors demonstrate how windows of opportunity for technological innovations emerge and also explain how they can be identified and effectively exploited Technological innovations are widely considered as an opportunity to realise a double dividend protect the environment and increase profits by introducing a more sustainable technology However intervention by the state is often needed to overcome the competitive disadvantage caused by externalities path dependency and lock in The authors provide extensive evidence that this resistance to technological change is subject to substantial temporal variation They argue that it is economically and politically sensible to identify periods of time in which resistance is weakest and to exploit these windows of opportunity whenever and wherever they occur They also highlight how time strategies for innovation policy can involve the preparation and creation of windows which do not yet exist Throughout the book they use an array of varied and interesting case studies to confirm and illustrate their theoretical findings These address issues such as CFC phase out the lean burn engine versus the catalytic converter ecological alternatives to chemical pesticides and the zero emission vehicle mandate in California By exploring the relationship between time strategies and technological change this book will undoubtedly lead to a more efficient and sustainable innovation policy It will be required reading for academics researchers and policymakers working in the fields of environmental innovation sustainability technology policy and political science

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