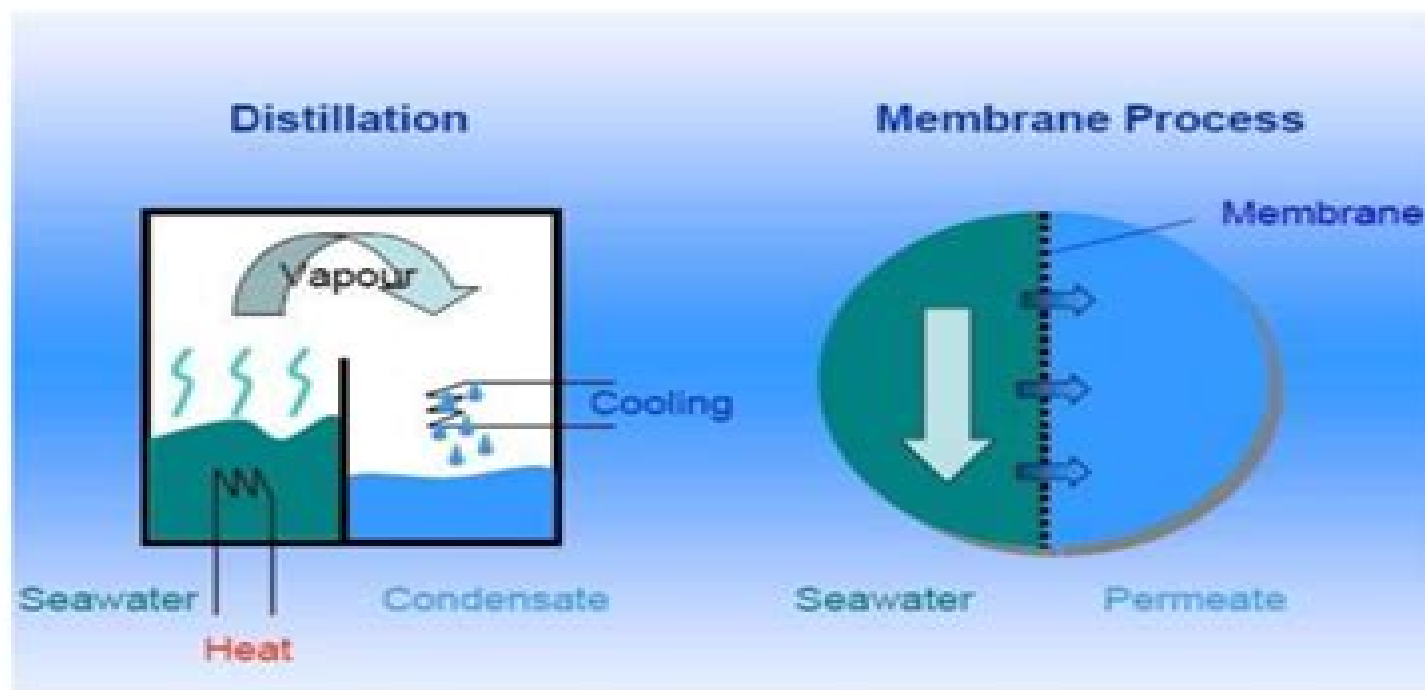


2. The Process of Desalination

Distillation and membrane desalting are the principal methods. Distillation mimics nature by evaporating and condensing water. Multi-Stage Flash (MSF), Multi-Effect Distillation (MED), and Vapor Compression (VC) facilities desalinate salt water in stages. To lower energy use, membranes must create water without evaporation. To function, membranes need either electrical power or shaft power. Reverse osmosis for brackish and seawater and electrodialysis for brackish water exclusively are the two methods that have come into use. Figure 1 illustrates the principles of desalination and membranes.



Principles Of Desalination

**K. S. Spiegler, A.D.K. Laird, F.S.
Aschner**



Principles Of Desalination:

Principles of Desalination (Part A) K Speigler, 2012-12-02 Principles of Desalination Part A Second Edition is a collection of papers that describes the design of distillation and dual purpose plants what desalination can and cannot accomplish in an economical way One paper discusses techniques toward a rapid and direct way of optimizing the economic performance of sea water conversion systems incurring capital and continuing costs of operation for example transformer equipment filtration devices and chemical preparation Another paper considers the general system and internal system engineering of distillation Designing distilling plants involves the selection of process parameters cycle determination and calculation of water costs The different types of evaporators are the boiling type the flash type the vapor compression the combination plant cycles and the power plant make up evaporators Commercial sea water desalination plants incorporate multistage flash evaporators or multieffect vertical tube or horizontal tube evaporators The problem of energy supply to these plants can be solved by a combined generation of electricity and low pressure steam When the generation of electricity and low pressure steam are combined the extra fuel demand for electricity generation over the fuel demand for low pressure steam generation only is less than that for electricity generation alone This book is suitable for economists environmentalists ecologists and policy makers involved in energy conservation agricultural development and water management **Principles of**

Desalination Kurt Samuel Spiegler, 1969

Principles of Desalination (Part B) K.S. Spiegler, 2012-12-02 Principles of Desalination Second Edition Part B focuses on the processes that remove salt and other minerals from saline water This book consists of five chapters Chapter 7 focuses on the conversion of saline water to fresh water by freezing while Chapter 8 describes hyperfiltration which is the separation of salts and other low molecular weight solutes from solvent by passage under pressure through a selective membrane The processes equipment control devices and chemical products involved in ultrapure water are outlined in Chapter 9 Chapter 10 covers the mineral scale problem chemistry of alkaline scaling physical factors in scale deposition and techniques for scale abatement and control The conversion of radiant energy into forms useful for desalination is elaborated in the last chapter This publication is a good source for students and researchers conducting work on the principles of desalination **Introduction to Desalination** Louis Theodore, R. Ryan Dupont, 2022-04-12

INTRODUCTION TO DESALINATION Explore the principles methods and applications of modern desalination processes Introduction to Desalination Principles Processes and Calculations delivers a comprehensive and robust exploration of desalination highlighted with numerous illustrative examples and calculations The book is divided into three sections the first of which offers an introduction to the topic that includes chapters covering global water scarcity and the need for new water The second section discusses the desalination process including evaporation reverse osmosis crystallization hybrid systems and other potable water processes The final part covers topics that include water conservation environmental considerations of desalination economic impacts of desalination optimization ethics and the future of desalination The book also includes A

comprehensive introduction to desalination including discussions of engineering principles the physical chemical and biological properties of water and water chemistry An extensive engineering analysis of the various desalination processes Practical discussions of miscellaneous desalination topics including the environmental and economic effects of the technology Perfect for process chemical mechanical environmental and civil engineers Introduction to Desalination Principles Processes and Calculations is also a valuable resource for materials scientists operators and technicians working in the field **The CRC Handbook of Thermal Engineering** Frank Kreith,2000-02-01 This book is unique in its in depth coverage of heat transfer and fluid mechanics including numerical and computer methods applications thermodynamics and fluid mechanics It will serve as a comprehensive resource for professional engineers well into the new millennium Some of the material will be drawn from the Handbook of Mechanical Engineering but with expanded information in such areas as compressible flow and pumps conduction and desalination Principles of Desalination. Edited by K.S. Spiegler. [With Illustrations.]. Kurt Samuel SPIEGLER,1966 Principles of Water Resources Thomas V. Cech,2018-04-03 Proper management of water resources can take many forms and requires the knowledge and expertise to work at the intersection of mathematics geology biology geography meteorology political science and even psychology This book provides an essential foundation in water management and development concepts and practices dissecting complex topics into short understandable explanations that spark true interest in the field Approaching the study of water resources systematically the discussion begins with historical perspective before moving on to physical processes engineering water chemistry government regulation environmental issues global conflict and more Now in its fourth edition this text provides the most current introduction to a field that is becoming ever more critical as climate change begins to threaten water supplies around the world As geography climate population growth and technology collide effective resource management must include a comprehensive understanding of how these forces intermingle and come to life in the water so critical to us all Desalination Jane Kucera,2019-04-16 This all new revised edition of a modern classic is the most comprehensive and up to date coverage of the green process of desalination in industrial and municipal applications covering all of the processes and equipment necessary to design operate and troubleshoot desalination systems This is becoming increasingly more important for not only our world s industries but our world s populations as pure water becomes more and more scarce Blue is the new green This is an all new revised edition of a modern classic on one of the most important subjects in engineering Water Featuring a total revision of the initial volume this is the most comprehensive and up to date coverage of the process of desalination in industrial and municipal applications a technology that is becoming increasingly more important as more and more companies choose to go green This book covers all of the processes and equipment necessary to design operate and troubleshoot desalination systems from the fundamental principles of desalination technology and membranes to the much more advanced engineering principles necessary for designing a desalination system Earlier chapters cover the basic principles the economics of desalination basic

terms and definitions and essential equipment The book then goes into the thermal processes involved in desalination such as various methods of evaporation distillation recompression and multistage flash Following that is an exhaustive discussion of the membrane processes involved in desalination such as reverse osmosis forward osmosis and electrodialysis Finally the book concludes with a chapter on the future of these technologies and their place in industry and how they can be of use to society This book is a must have for anyone working in water for engineers technicians scientists working in research and development and operators It is also useful as a textbook for graduate classes studying industrial water applications **The**

CRC Handbook of Mechanical Engineering, Second Edition ,1998-03-24 During the past 20 years the field of mechanical engineering has undergone enormous changes These changes have been driven by many factors including the development of computer technology worldwide competition in industry improvements in the flow of information satellite communication real time monitoring increased energy efficiency robotics automatic control increased sensitivity to environmental impacts of human activities advances in design and manufacturing methods These developments have put more stress on mechanical engineering education making it increasingly difficult to cover all the topics that a professional engineer will need in his or her career As a result of these developments there has been a growing need for a handbook that can serve the professional community by providing relevant background and current information in the field of mechanical engineering The CRC Handbook of Mechanical Engineering serves the needs of the professional engineer as a resource of information into the next century **The CRC Handbook of Mechanical Engineering** D. Yogi Goswami,2004-09-29 The

second edition of this standard setting handbook provides and all encompassing reference for the practicing engineer in industry government and academia with relevant background and up to date information on the most important topics of modern mechanical engineering These topics include modern manufacturing and design robotics computer engineering environmental engineering economics patent law and communication information systems The final chapter and appendix provide information regarding physical properties and mathematical and computational methods New topics include nanotechnology MEMS electronic packaging global climate change electric and hybrid vehicles and bioengineering

Principles of Desalination K. S. Spiegler,A.D.K. Laird,F.S. Aschner,1980 **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 Separation Principles and**

Applications Ahmad Fauzi Ismail,Mukhlis A. Rahman,Mohd Hafiz Dzarfan Othman,Takeshi Matsuura,2018-09-07 Membrane Separation Principles and Applications From Material Selection to Mechanisms and Industrial Uses the latest volume in the Handbooks in Separation Science series is the first single resource to explore all aspects of this rapidly growing area of study Membrane technology is now accepted as one of the most effective tools for separation and purification primarily due to its simple operation The result has been a proliferation of studies on this topic however the relationships between fundamental

knowledge and applications are rarely discussed This book acts as a guideline for those who are interested in exploring membranes at a more progressive level Covering methods of pressure driving force partial pressure driving force concentration driving force electrical potential driving force hybrid processes and more this volume is more complete than any other known resource on membrane separations Covers membrane material selection membrane fabrication membrane characterization separation mechanisms and applications in each chapter Authored by contributors who are internationally recognized as experts in their respective fields Organized by the driving force behind each type of membrane separation a unique approach that more clearly links fundamental principles with their dominant applications

Desalination Michael Schorr, 2011-02-28 The book comprises 14 chapters covering all the issues related to water desalination These chapters emphasize the relationship between problems encountered with the use of feed water the processes developed to address them the operation of the required plants and solutions actually implemented This compendium will assist designers engineers and investigators to select the process and plant configuration that are most appropriate for the particular feed water to be used for the geographic region considered as well as for the characteristics required of the treated water produced This survey offers a comprehensive hierarchical and logical assessment of the entire desalination industry It starts with the worldwide scarcity of water and energy continues with the thermal and membrane based processes and finally presents the design and operation of large and small desalination plants As such it covers all the scientific technological and economical aspects of this critical industry not disregarding its environmental and social points of view One of InTech's books has received widespread praise across a number of key publications Desalination Trends and Technologies Ed Schorr M 2011 has been reviewed in Corrosion Engineering Science

Water Resources and Development Clive Agnew, Philip Woodhouse, 2010-11-03 Water Resources and Development explores water management strategies through scientific social and political perspectives and uses case studies to exemplify four key development challenges economic growth poverty reduction competition and conflict over water and adaptation to climate change

Membrane Distillation Kang-Jia Lu, Tai-Shung Chung, 2019-10-28 This book aims to elaborate the basics and recent advances of membrane distillation MD as the same shows promise for seawater desalination and wastewater treatment Starting with fundamentals of MD processes including the heat and mass transfer analysis energy evaluation and mathematical modelling text includes engineering and molecular design of MD membranes Various types of hybrid systems including freeze desalination FD MD MD crystallization MDC pressure retarded osmosis PRO MD and forward osmosis FO MD will be discussed in this book Further it summarizes the future of MD from both industrial and academic perspectives along with energy sources and economic analysis

Kirk-Othmer Chemical Technology and the Environment, 2 Volume Set Wiley, 2007-05-21 The two volume reference work Chemical Technology and the Environment provides readers with knowledge on contemporary issues in environmental pollution prevention and control as well as regulatory health and safety issues as related to chemical

technology It introduces and expands the knowledge on emerging green materials and processes and greener energy technology as well as more general concepts and methodology including sustainable development and chemistry and green chemistry Based on Wiley's renowned Kirk Othmer Encyclopedia of Chemical Technology this compact reference features the same breadth and quality of coverage and clarity of presentation found in the original **Distillation Processes** Vilmar Steffen,2022-08-31

Distillation is an important separation technique that has been used for many centuries to exploit the volatility differences between components in a mixture The distillation process has many variations and applications This book includes two sections on desalination and reactive distillation It discusses desalination in the processes of solar and membrane distillation with a focus on the reduction of energy costs to obtain potable water It also discusses reactive distillation which can be used in some cases to reduce the power duty in the separation process by using the reaction heat directly in the separation The book includes cases of mathematical modeling simulation and optimization of the distillation process PHYSICAL, CHEMICAL AND BIOLOGICAL ASPECTS OF WATER -Volume I ,2010-02-23

Physical Chemical and Biological Aspects of Water 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 The volume presents state of the art subject matter of various aspects of Physical Chemical And Biological Aspects Of Water such as Electrochemical Processes Biological Contamination Of Water Separation Thermodynamics Process Thermodynamics Separation Phenomena In Some Desalination Processes Thermal Desalination Processes Membrane Based Desalination Processes Some Practical Aspects Of Desalination Processes Properties Of Natural Waters Physical And Thermodynamic Properties Of Water In The Liquid Phase General Characteristics Of Water An Overview Of Fouling Biofouling Composite Fouling Fundamentals And Mechanisms Common Foulants in Desalination Inorganic Salts Crystallization Fouling Biological Foulants Change Of Distiller Performance With Fouling This volume is aimed at the following five major target audiences University and College Students Educators Professional Practitioners Research Personnel and Policy and Decision Makers

Freezing Colloids: Observations, Principles, Control, and Use Sylvain Deville,2017-01-19 This book presents a comprehensive overview of the freezing of colloidal suspensions and explores cutting edge research in the field It is the first book to deal with this phenomenon from a multidisciplinary perspective and examines the various occurrences their technological uses the fundamental phenomena and the different modeling approaches Its chapters integrate input from fields as diverse as materials science physics biology mathematics geophysics and food science and therefore provide an excellent point of departure for anyone interested in the topic The main content is supplemented by a wealth of figures and illustrations to elucidate the concepts presented and includes a final chapter providing advice for those starting out in the field As such the book provides an invaluable resource for materials scientists physicists biologists and mathematicians and will also benefit food engineers civil engineers and materials processing professionals

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