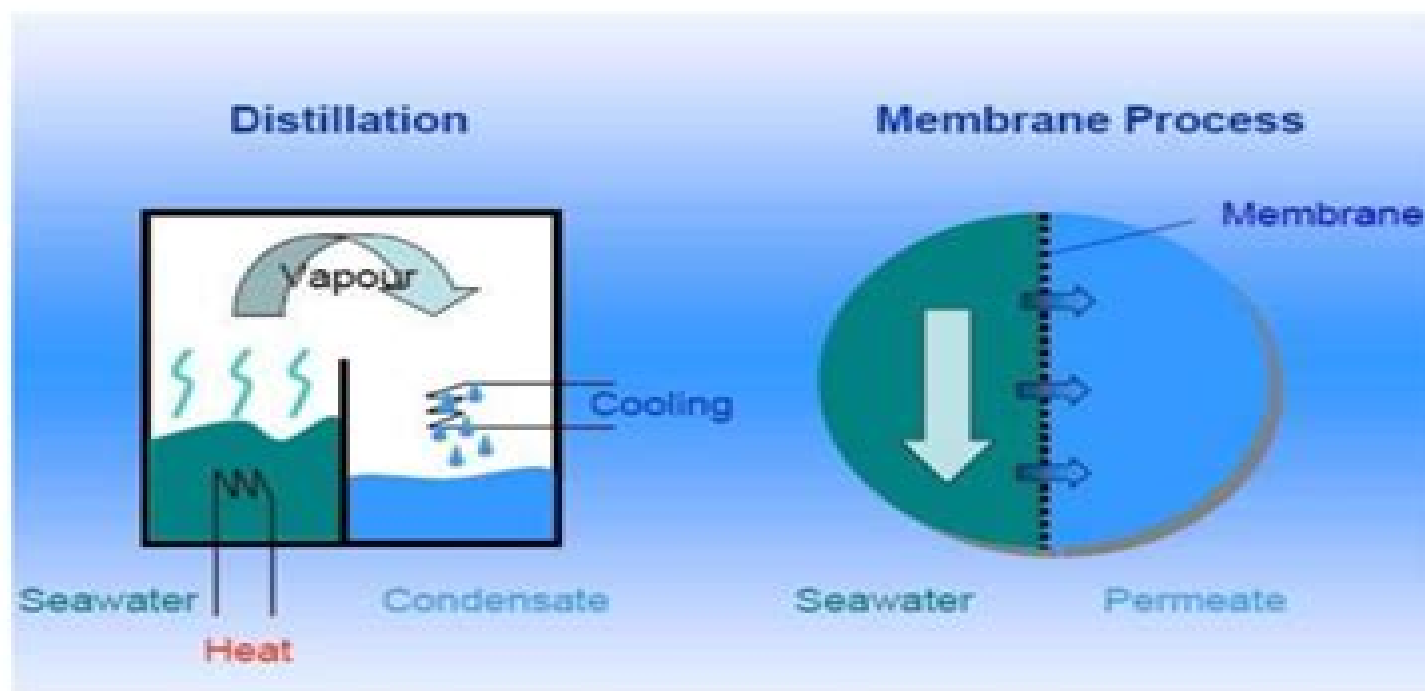


## 2. The Process of Desalination

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

**Frank Kreith**



## **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

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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* 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*

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

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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

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

*Physical Principles of Food Preservation* Marcus Karel,Daryl B. Lund,2003-06-20 This reference examines the properties conditions and theoretical principles governing the safety and efficacy of various food preservation storage and packaging techniques The book analyzes methods to predict and optimize the nutrition texture and quality of food compounds while reducing operating cost and waste The Second Edition contains new chapters and discussions on non thermal processes the mechanisms of heat transfer including conduction convection radiation and dielectric and microwave heating the kinetic parameters of food process operations freezing technology using illustrative examples recent breakthroughs in cryochemistry and cryobiology and more

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