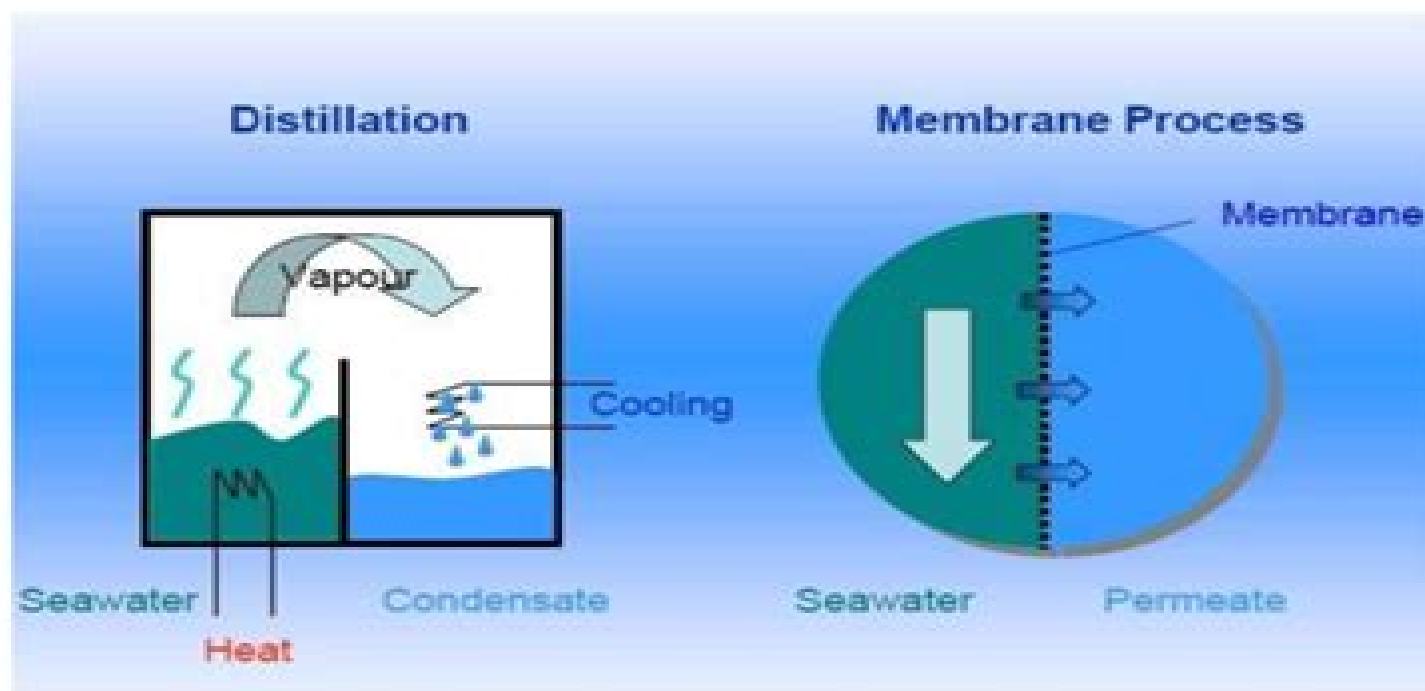


## 2. The Process of Desalination

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

**Lyonnaise des eaux-Dumez (Firm)**

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the text 'Lyonnaise des eaux-Dumez (Firm)'. It has a darker red center that fades to a lighter red at the edges.

## **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

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

**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      **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      **PHYSICAL, CHEMICAL AND BIOLOGICAL ASPECTS OF WATER -Volume I**

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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

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Desalination Jane Kucera, 2014-02-04 This is the first volume to cover desalination in such depth and detail offering engineers technicians and operators full coverage of the applications economics and expectations of what will certainly become one of the most important water related processes on the planet Covering thermal processes and membrane processes this is the only volume any engineer working in desalination must have covering both practical and theoretical issues encountered on a daily basis Certain to be an important contribution to the water management community

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

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