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and Need for Water Desalination The earth contains about  $1.4 \times 10^6$  km<sup>3</sup> of water, which covers approximately 70% of the planet surface area; the percentage of salt water in this large amount is 97.5%. The remaining 2.5% is fresh water with 80% of this amount frozen in the icecaps or combined as soil moisture.

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1.1 Resources and Need for Water Desalination . The earth contains about  $1.4 \times 10^6$  km<sup>3</sup> of water, which covers approximately 70% of the planet surface area; the percentage of salt water in this large amount is 97.5%. The remaining 2.5% is fresh water with 80% of this amount frozen in the icecaps or combined as soil moisture. Both forms are not easily accessible for human use.

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Desalination is a main source of fresh water in the Gulf countries, a number of the Caribbean and Mediterranean Islands, and several municipalities in a large number of countries. As the industry expands there is a pressing need to have a clear and well-written textbook that focuses on desalination fundamentals and other industrial aspects.

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Fundamentals of salt water desalination. [Hisham T El-Dessouky; Hisham Mohamed Ettouney] -- Industrial desalination of sea and brackish water is becoming an essential part in providing sustainable sources of fresh water for a larger number of communities around the world.

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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 ...

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Industrial desalination of sea and brackish water is becoming an essential part in providing sustainable sources of fresh water for a larger number of communities around the world. Desalination is a main source of fresh water in the Gulf countries, a number of the Caribbean and Mediterranean Islands, and several municipalities in a large number of countries. As the industry expands there is a pressing need to have a clear and well-written textbook that focuses on desalination fundamentals and other industrial aspects. This book focuses on the processes widely used in industry, which include multistage flash desalination and reverse osmosis. Also, other desalination processes with attractive features and high potential are featured. It includes a large number of solved examples, which are explained in simple and careful matter that allow the reader to follow and understand the development. The data used in the development of the examples and case studies are extracted from existing desalination plants. This title also includes comparisons of model predictions against results reported in literature as well as available experimental and industrial data. Several industries include similar unit operation processes, i.e., evaporators, condensers, flashing units, membrane separation, and chemical treatment. Examples of such industries include wastewater treatment, food, petroleum, petrochemical, power generation, and pulp and paper. Process fundamentals and design procedures of such unit processes follow the same procedures given in this textbook.

The need for fresh water is increasing with the rapid growth of the world's population. In countries and regions with available water resources, it is necessary to ensure the health and safety of the water supply. However, in countries and regions with limited freshwater resources, priority is given to water supply plans and projects, among which the desalination strategy stands out. In the desalination process, membrane and thermal processes are used to obtain fresh water from salty water that is in abundant amounts in the sea. This book will outline valuable scientific contributions to the new desalination and water treatment technologies to obtain high quality water with low negative environmental impacts and cost. The editors would like to record their sincere thanks to the authors for their contributions.

Although more than 70% of the globe is covered with water, only a small portion is suitable for direct human use, making the scarcity of freshwater one of our planet's most serious challenges. In this context, desalination, defined as "the separation of salts from water," is one of the possible solutions for appeasing our ever-increasing thirst. By drawing upon the expertise of a remarkable team of international authors, this book provides a simple, encompassing, and "multidisciplinary" introduction to desalination. The particular strength of this publication is its inclusive yet straightforward nature. In other words, the unique assortment of reader-friendly chapters is designed to cover the topic of desalination as a whole and strike a delicate balance between the technical and non-technical. To this end, the book is divided into five general sections: \* The first section presents an overview of water scarcity, followed by a review of integrated water management and the alternatives to desalination. The fundamentals of desalination are also provided, including simple water chemistry. \* The second section covers conventional desalination technologies, including thermal and membrane processes. The topics of pre- and post- treatment are given due credit, as all desalination plants are more or less reliant on them. \* The third section reviews the history of how desalination technologies originated, including a review of today's R&D activities and cutting edge research. The topic of membrane manufacturing is also covered. \* Section four is concerned with energy and environmental issues, including the application of renewable and nuclear energy, energy

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minimization, brine management, and environmental impacts. \* Finally, section five covers the social and commercial issues, ranging from rural desalination to politics. Desalination costs and economic feasibility are discussed as well as issues in business development and future market prospects.

Pretreatment for Reverse Osmosis Desalination is a comprehensive reference on all existing and emerging seawater pretreatment technologies used for desalination. The book focuses on reverse osmosis membrane desalination, which at present is the most widely applied technology for the production of fresh drinking water from highly saline water sources (brackish water and seawater). Each chapter contains examples illustrating various pretreatment technologies and their practical implementation. Provides in-depth overview of the key theoretical concepts associated with desalination pre-treatment Gives insight into the latest trends in membrane separation technology Incorporates analytical methods and guidelines for monitoring pretreatment systems

Salinity gradient energy, also known as blue energy and osmotic energy, is the energy obtainable from the difference in salt concentration between two feed solutions, typically sea water and river water. It is a large-scale renewable resource that can be harvested and converted to electricity. Efficient extraction of this energy is not straightforward, however. Sustainable Energy from Salinity Gradients provides a comprehensive review of resources, technologies and applications in this area of fast-growing interest. Key technologies covered include pressure retarded osmosis, reverse electrodialysis and accumulator mixing. Environmental and economic aspects are also considered, together with the possible synergies between desalination and salinity gradient energy technologies. Sustainable Energy from Salinity Gradients is an essential text for R&D professionals in the energy & water industry interested in salinity gradient power and researchers in academia from post-graduate level upwards. For more than ten years the Editors have been sharing substantial research activities in the fields of renewable energy and desalination, successfully participating to a number of European Union research projects and contributing to the relevant scientific literature with more than 100 papers and 2 books on Desalination technologies and their coupling with Renewable Energy. They are intensely working in the field of Salinity Gradient Power, carrying out research with specific focus on open-loop and closed-loop reverse electrodialysis and pressure retarded osmosis. Covers applications of pressure retarded osmosis, reverse electrodialysis, and capacitive mixing for salinity gradient power in one convenient volume Presents the environmental aspects and economics of salinity gradient energy Explores possible synergies between desalination and salinity gradient energy

“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

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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.

Osmosis Engineering provides a comprehensive overview of the state-of-the-art surrounding osmosis-based research and industrial applications. The book covers the underpinning theories, technology developments and commercial applications. Sections discuss innovative and advanced membranes and modules for osmosis separation processes (e.g., reverse osmosis, forward osmosis, pressure retarded osmosis, osmotic membrane distillation), different application of these osmosis separation processes for energy and water separation, such as the treatment of radioactive waste, oily wastewater and heavy metal removal, draw solutions, pretreatment technologies, fouling effects, the use of renewable energy driven osmotic processes, computational, environmental and economic studies, and more. Covers state-of-the-art osmotic engineering technologies and applications Presents multidisciplinary topics in engineered osmosis, including both fundamental and applied EO concepts Includes major challenges such as fouling mitigation, membrane development, pre-treatment and energy usage

Experts in the areas of water science and chemistry from the government, industry, and academic arenas discussed ways to maximize opportunities for these disciplines to work together to develop and apply simple technologies while addressing some of the world's key water and health problems. Since global water challenges cross both scientific disciplines, the chemical sciences have the ability to be a key player in improving the lives of billions of people around the world.

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