

Desalination

Gnaneswar Gude

Fundamentals of Salt Water Desalination H.T. El-Dessouky, H.M.

Ettooney, 2002-03-20 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.

Desalination of Seawater, 2011 The use of seawater desalination is an increasingly sought after alternative for new drinking water supplies in coastal areas, particularly as desalination becomes more economical. This new manual of practice parlays lessons learned from recent studies and global seawater desalination projects into guidance for desalination facilities that are reliable, economical, and environmentally sound. This new manual is specifically designed to help water utility managers and design engineers understand desalination—the technologies, the infrastructure, and the costs—to make informed decisions from planning through treatment plant construction. It explains environmental and ecological impacts of desalination plants, seawater intakes, and the disposal of concentrate discharges back into the ocean. Chapters describe the minerals and other constituents that determine source water quality and, therefore, treatment approaches.

Marine Impacts of Seawater Desalination Nurit Kress, 2019-02-11 Seawater desalination is increasing globally, and in light of this, it is necessary to look at the environmental and ecological impacts of desalination plants on the marine environment. *Marine Impacts of Seawater Desalination: Science, Management, and Policy* combines existing studies and new research into a unified work describing the interplay of seawater desalination and the marine environment. In particular, the book identifies knowledge gaps in the current data and recommends future research paths. The book also covers the established and emerging desalination processes and the policies and regulations applied to seawater desalination. *Marine Impacts of Seawater Desalination* is an ideal reference for engineers and developers working on environmental-related issues of seawater desalination, scientists and researchers studying these issues, as well as regulators and decision makers

who can use this book as a useful guide for planning and operating desalination plants. A multidisciplinary approach to understanding the environmental impact of seawater desalination on the marine environment. Real-world data demonstrating the environmental effects of seawater desalination. Impact of seawater quality and marine organisms on desalination operations. Discussion of foreseeable future effects and significant areas for further research on seawater desalination.

Desalination Technology Joseph Cotruvo, Nikolay Voutchkov, John Fawell, Pierre Payment, David Cunliffe, Sabine Lattemann, 2011-03-17 Desalination Technology: Health and Environmental Impacts covers the latest developments in desalination, examining the environmental and public health-related impacts of these technologies. Written by international experts, the text presents specifications for assessing water quality, technical issues associated with desalination technologies, and the chemical aspects of desalinated water and its microbiology. The book also discusses environmental protection issues that assist in the optimization of proposed and existing desalination facilities to ensure that nations and consumers enjoy the benefits of the expanded access to desalinated water. This includes coverage of health and environmental issues such as energy conservation and sustainability as well as protection of delicate coastal ecosystems and groundwater from contamination by surface disposal of concentrates—challenges that must be addressed during the design, construction, and operation of a desalination facility. Development of new and improved desalinization technologies, including major cost reduction trends, have significantly broadened the opportunities to access large quantities of safe water in many parts of the world. And while there are many books available on desalination, this book's unusual approach blends technical coverage of the latest technologies with coverage of the environmental and public health-related impacts of these technologies, setting it apart from other resources. It provides technical guidance based on the practical expertise of a balanced group of international scientists and engineers.

Renewable Energy Technologies for Water Desalination Hacene Mahmoudi, Noredine Ghaffour, Mattheus F.A. Goosen, Jochen Bundschuh, 2017-07-14 The book presents a thorough overview of the latest trends and challenges in renewable energy technologies applications for water desalination, with an emphasis on environmental concerns and sustainable development. Emphasis is on the various uses of renewable energy, as well as economics & scale-up, government subsidies & regulations, and environmental concerns. It provides an indication on how renewable energy technologies are rapidly emerging with the promise of economic and environmental viability for desalination. Further it gives a clear indication on how exactly to accelerate the expansion and commercialization of novel water production systems powered by renewable energies and in what manner environmental concerns may be minimized. This book is all-inclusive and wide-ranging and directed at decision makers in government, industry and the academic world as well as students.

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.

Thermal Solar Desalination Vassilis Belessiotis, Soteris Kalogirou, Emmy Delyannis, 2016-06-28 *Thermal Solar Desalination: Methods and Systems* presents numerous thermal seawater desalination technologies varying from the very simple, easy to construct and operate solar stills, to the more advanced membrane and indirect distillation methods. All types of solar thermal desalination technologies are presented in detail to enable readers to comprehend the subject, from design details to enabling further research to be carried out in this area. The various units used in desalination are outlined, along with diagrams of all detailed working principles of desalination methods and systems. The authors consider the economic aspects of these processes, demonstrating successful implementation of desalination units suitable for areas where supplies of fresh water in natural ways is limited or non-existent. Includes detailed descriptions and design of all types of solar thermal desalination systems Lists a comprehensive record of seawater and fresh water thermophysical properties required in the design of desalination systems Contains equations to calculate and analyze the performance of the processes examined and assesses their practicality and application

A Multidisciplinary Introduction to Desalination Alireza

Bazargan, 2022-09-01 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 removal of salt from water, is one of the possible solutions for overcoming our planet's municipal and industrial thirst. By drawing upon the authoritative expertise of a remarkable team of international authors, this book aims to provide an encompassing and multidisciplinary introduction to various aspects of desalination. The forte of this publication is that it does not overtly focus on a particular sub-topic of desalination, but rather addresses the topic as a whole. In other words, the unique assortment of reader-friendly chapters is designed to strike a delicate balance between the technical and non-technical. 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 provided, including simple water chemistry; The second section covers the conventional technologies of today, including thermal and membrane desalination processes. The topics of pre- and post-treatment are given due credit, as no desalination plant can operate without 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 processes and engineering applied for membrane manufacturing are also presented; Section four is concerned with energy and environmental issues, including the application of renewable and nuclear energy, minimization of energy usage and the water-energy-nexus, brine management, and environmental impacts; Finally, section five covers the social and commercial issues, ranging from rural desalination, to the politics of desalination. Desalination costs and feasibility are presented, as well as issues in business development and the future market prospects. Effectively, *A Multidisciplinary Introduction to Desalination* aims to be a holistic go-to-compendium for anyone seeking a

balanced understanding of the various facets of desalination

Desalination Technologies Iqbal M. Mujtaba, Md Tanvir Sowgath, 2022-06-28
Desalination Technologies: Design and Operation sets the scene for desalination technologies as a long-term solution to freshwater demand by analyzing the current demand for water, available water resources and future predicted demand. The book captures recent developments in thermal desalination (multistage flash desalination, multi-effect evaporation, vapor compression), membrane desalination (forward osmosis, reverse osmosis, pressure retarded, electrodialysis, membrane distillation, ultra-, nano-, and micro-filtration), and alternative processes such as freezing and ion exchange. Both dynamic and steady state models (from short cut, simple, to detail) of various desalination processes are discussed. The book is intended for (under)graduate students in chemical engineering and postgraduate researchers and industrial practitioners in desalination. Provides the fundamentals of different desalination processes Includes desalination modeling from short and simple, to detailed and more advanced Discusses desalination optimization and synthesis to reduce environmental impact Handles thermo-physical property models and correlations Includes case studies to give a clearer understanding of desalination

Desalination Engineering: Planning and Design Nikolay Voutchkov, 2012-12-18
An in-depth guide to reverse osmosis desalination This Water Environment Federation and WaterReuse Association publication provides comprehensive information on the planning and engineering of brackish and seawater desalination projects for municipal water supplies. After a brief overview of widely used desalination technologies, Desalination Engineering focuses on reverse osmosis desalination. The book discusses basic principles, planning and environmental review of projects, design and selection of key desalination plant components, desalinated water posttreatment, and concentrate management. Guidelines on sizing and cost estimation of desalination plant facilities are also included in this practical resource.
COVERAGE INCLUDES: Source water quality characterization Fundamentals of reverse osmosis desalination Planning considerations Environmental review and permitting Intakes for source water collection Intake pump stations Source water screening and conditioning Sand removal, sedimentation, and dissolved air flotation Pretreatment by granular media filtration Pretreatment by membrane filtration Comparison of granular media and membrane pretreatment Reverse osmosis separation Post-treatment of desalinated water Desalination plant discharge management Desalination project cost estimates

Tapping the Oceans Joseph Williams, Erik Swyngedouw, 2018-11-30 Increasingly, water-stressed cities are looking to the oceans to fix unreliable, contested and over-burdened water supply systems. Desalination technologies are, however, also becoming the focus of intense political disagreements about the sustainable and just provision of urban water. Through a series of cutting-edge case studies and multi-subject approaches, this book explores the political and ecological debates facing water desalination on a broad geographical scale.

Advances in Water Desalination Noam Lior, 2012-10-26 Desalination is a dynamically growing field with more research, more engineering, more applications, more countries, more people, and with more training programs. This book provides high quality invited reviews on progress in various aspects of the desalination field. It features comprehensive coverage of

desalination science, technology, economics, markets, energy considerations, environmental impact, and more. It is a key guide for professionals and researchers in water desalination and related areas including chemical, mechanical, and civil engineers, chemists, materials scientists, manufacturers of desalination membranes, water reuse engineers, and water authorities, as well as students in these fields.

THE DESALINATION PROCESSES SITE SELECTION, LAYOUT AND CIVIL WORKS - Volume I, 2010-02-12 This volume 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 The Desalination Processes Site Selection, Layout and Civil Works such as: Site selection, Design Guidelines of Seawater Intake Systems, Water Intakes by Wells And Infiltration Galleries, Effluent Discharge Using Boreholes and Ponds, Effluent Discharge Using Boreholes and Ponds, Overall Site Layout, MSF Plant Layout, Reverse Osmosis Plant Layout, Electrodialysis Plant Layout, Civil Engineering in Desalination Plants, Mechanical Vibration Insulation, Wind Design, Durability and Repair of Reinforced Concrete In Desalination Plants, Link to Power Station, Disposal and Recirculation of Saline Water. 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.

Desalination Sustainability Hassan Arafat, 2017-06-09 Desalination Sustainability: A Technical, Socioeconomic, and Environmental Approach presents a technical, socioeconomical, and environmental approach that guides researchers and technology developers on how to quantify the energy efficiency of a proposed desalination process using thermodynamics-based tools. The book offers the technical reader an understanding of the issues related to desalination sustainability. For example, technology users, such as public utility managers will gain the ability and tools to assess whether or not desalination is a good choice for a city or country. Readers will learn new insights on a clear and practical methodology on how to probe the economic feasibility of desalination using simple and effective tools, such as levelized cost of water (LCOW) calculation. Decision-makers will find this book to be a valuable resource for the preliminary assessment of whether renewable-powered desalination is a good choice for their particular setting. Presents the issues related to desalination sustainability Guides researchers and technology developers on how to quantify the energy efficiency of a proposed desalination process using thermodynamics-based tools Outlines a clear and practical methodology on how to probe the economic feasibility of desalination using simple and effective tools Provides a roadmap for decision-makers on the applicability of a desalination process at a particular setting

Desalination National Research Council, Division on Earth and Life Studies, Water Science and Technology Board, Committee on Advancing Desalination Technology, 2008-09-14 There has been an exponential increase in desalination capacity both globally and nationally since 1960, fueled in part by growing concern for local water scarcity and made possible to a great extent by a major federal investment for desalination research and development. Traditional sources of supply are increasingly expensive, unavailable, or controversial, but desalination technology offers the

potential to substantially reduce water scarcity by converting the almost inexhaustible supply of seawater and the apparently vast quantities of brackish groundwater into new sources of freshwater. Desalination assesses the state of the art in relevant desalination technologies, and factors such as cost and implementation challenges. It also describes reasonable long-term goals for advancing desalination technology, posits recommendations for action and research, estimates the funding necessary to support the proposed research agenda, and identifies appropriate roles for governmental and nongovernmental entities.

Desalination Jane Kucera, 2019-04-11 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.

Desalination Project Cost Estimating and Management Nikolay Voutchkov, 2018-10-26 Desalination Project Cost Estimating and Management examines the key issues associated with the estimation of costs for desalination plants. It covers all aspects of desalination project cost estimating and management: direct and indirect capital costs, fixed and variable operation and maintenance costs, and total costs for water production. In addition, it provides a detailed overview of the factors that influence project costs and discusses the technological and project delivery methods to control and optimize project costs. The book includes cost curves for the most commonly used seawater desalination facilities and numeric examples illustrating how to prepare a budgetary cost estimate for a typical desalination project. Features: •Presents a comprehensive engineering overview of key issues associated with desalination project cost estimating. •Includes cost curves which can be used for budgetary level estimates of

capital, and operation and maintenance (O&M) expenditures. •Contains easy to use cost-estimating rules of thumb derived from actual desalination projects. •Includes several numeric examples illustrating the cost estimating process.

Seawater Desalination Andrea Cipollina, Giorgio Micale, Lucio Rizzuti, 2009-12-24 A growing proportion of the world's population is dependent on Seawater Desalination as a source of fresh water for both potable and civil use. One of the main drawbacks of conventional desalination technologies is the substantial energy requirement, which is facing cost increases in the global energy market. Seawater Desalination presents an overview of conventional and non-conventional technologies, with a particular focus on the coupling of renewable energies with desalination processes. The first section of this book presents, in a technical but reader-friendly way, an overview of currently-used desalination processes, from thermal to membrane processes, highlighting the relevant technical features, advantages and disadvantages, and development potential. It also gives a rapid insight into the economic aspects of fresh water production from seawater. The second section of the book presents novel processes which use Renewable Energies for fresh water production. From the first solar still evaporators, which artificially reproduced the natural cycle of water, technology has progressed to develop complex systems to harness energy from the sun, wind, tides, waves, etc. and then to use this energy to power conventional or novel desalination processes. Most of these processes are still at a preliminary stage of development, but some are already being cited as examples in remote areas, where they are proving to be valuable in solving the problems of water scarcity. A rapid growth in these technologies is foreseen in the coming years. This book provides a unique foundation, within the context of present and future sustainability, for professionals, technicians, managers, and private and public institutions operating in the area of fresh water supply.

Sustainable Desalination Handbook Gnaneswar Gude, 2018-03-07 Sustainable Desalination Handbook: Plant Selection, Design and Implementation provides the comprehensive knowledge base required for efficient and sustainable process design for existing and new desalination plants around the world. This valuable resource for understanding and utilizing the most recent developments in desalination technologies and methods addresses the necessary components, including process design and implementation, operational strategies, and novel discoveries that minimize environmental impacts. In addition, the book features essential illustrations, operational details, issues and potential solutions and sustainable management strategies for present and future desalination plants. Explains plant design and process selection criteria for each desalination process Presents international regulations and permitting for intake and discharge locations, design and disposal Provides energy recovery schemes, optimization and process controls Covers renewable energy sources, such as nuclear, geothermal, solar and wind powered desalination, energy storage and optimization Includes case studies of recent desalination projects and process design

Introduction to Desalination Fuad Nesf Alasfour, 2020-05-19 One book dealing with the fundamentals of thermal and membrane desalination systems and discussing their economical as well as environmental aspects. With a growing population, climate change and greater water demand, desalination has increasingly become a part of the solution to regional water scarcity - seawater desalination capacity has roughly doubled in the past ten years.

Desalination has also begun to receive more attention in academia, with research focusing on improving energy efficiency and system robustness and lowering capital costs. With this book, an introduction is given to the basics and fundamentals of desalination systems. Both, thermal and membrane desalination systems, are covered and discussed in view of energy, exergy, economic and environmental aspects. In the beginning, Introduction to Desalination: Systems, Processes and Environmental Impacts describes multi effect evaporation, vapor compression and multi-stage flashing. Further chapters deal with common membrane-based separations like reverse osmosis and membrane filtration, forward osmosis, diffusion dialysis and pervaporation as well as thermo-osmosis, electrodialysis and electrodeionization. Subsequently, hybrid systems are discussed, and the economic analysis of such systems and their environmental impact are highlighted. Each chapter contains theoretical and practical examples and concludes with questions and problems for self-study. * Needed: Desalination has become a part of the solution to regional water scarcity and an introductory book in this field is urgently needed. * Balanced Approach: Presents the fundamentals of thermal and membrane desalination systems. * Learning Material: Each chapter includes exercises for self-study and Instructors can find teaching material online. Introduction to Desalination: Systems, Processes and Environmental Impacts is an important resource for master's students in engineering sciences, lecturers in chemical and mechanical engineering, engineers, environmental chemists, as well as process engineers, engineering scientists in industry, and environmental consultants.

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Desalination Introduction

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