Sasakura Fresh Water Generator

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.

Consists largely of abstracts of articles and papers of interest to shipbuilders, ship owners and marine engineers.

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.

This book presents the most recent innovations, trends, concerns and practical challenges, and solutions in the field of water resources for arid areas. It gathers outstanding contributions presented at the International Water Conference on Water Resources in Arid Areas (IWC 2016), which was held in Muscat, Oman in March 2016. The individual papers discuss challenges and solutions to alleviate water resource scarcity in arid areas, including water resources management, the introduction of modern irrigation systems, natural groundwater recharge, construction of dams for artificial recharge, use of treated wastewater, and desalination technologies. As such, the book provides a platform for the exchange of recent advances in water resources science and research, which are essential to improving the critical water situation

Includes special issues.

Provides information on Japanese companies, products and services and includes brief overviews giving demographic, business, and tourist information for all Japanese prefectures

1966-1973 include British shipbuilding compendium (1969-1970 called UK and overseas shipbuilding compendium; 1971, UK and overseas shipbuilding and marine compendium).

Fresh Water from the Sea is a collection of papers that discusses the advancement in the technologies and methodologies utilized in the process of desalting seawater. The emphasis of the book is not only on desalting but also on processing the seawater into potable water. The coverage of the text includes the advancement of desalting process in various countries, such as Japan, Israel, and Italy. The text also covers the aspects of the application of ion exchange to the conversion of saline water into fresh water and the evolution of the distillation process for seawater conversion. The text will be of great use to researchers and practitioners in disciplines that directly deal with securing a potable water source.

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