



Boron Separation Processes



Edited by
Nalan Kabay, Marek Bryjak, Nidal Hilal



Boron Separation Processes

Daniela Niemeyer

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the author's name.

Boron Separation Processes:

Boron Separation Processes Nalan Kabay, Marek Bryjak, Nidal Hilal, 2015-01-19 The impending crisis posed by water stress and poor sanitation represents one of the greatest human challenges for the 21st century and membrane technology has emerged as a serious contender to confront the crisis. Yet whilst there are countless texts on wastewater treatment and on membrane technologies none address the boron problem and separation processes for boron elimination. *Boron Separation Processes* fills this gap and provides a unique and single source that highlights the growing and competitive importance of these processes. For the first time the reader is able to see in one reference work the state of the art research in this rapidly growing field. The book focuses on four main areas: Effect of boron on humans and plants; Separation of boron by ion exchange and adsorption processes; Separation of boron by membrane processes; Simulation and optimization studies for boron separation. Provides in one source a state of the art overview of this compelling area. Reviews the environmental impact of boron before introducing emerging boron separation processes. Includes simulation and optimization studies for boron separation processes. Describes boron separation processes applicable to specific sources such as seawater, geothermal water and wastewater.

Geothermal Water Management Jochen Bundschuh, Barbara Tomaszewska, 2018-03-12 Availability of and adequate accessibility to freshwater and energy are two key technological and scientific problems of global significance. At the end of the 20th century the deficit of water for human consumption and economic application forced us to focus on rational use of resources. Increasing the use of renewable energy sources and improving energy efficiency is a challenge for the 21st century. Geothermal energy is heat energy generated and stored in the Earth, accumulated in hydrothermal systems or in dry rocks within the Earth's crust in amounts which constitute the energy resources. The sustainable management of geothermal energy resources should be geared towards optimization of energy recovery but also towards rational management of water resources since geothermal water serves both as energy carrier and also as valuable raw material. Geothermal waters, depending on their hydrogeothermal characteristics, the lithology of the rocks involved, the depth at which the resources occur and the sources of water supply, may be characterized by very diverse physicochemical parameters. This factor largely determines the technology to be used in their exploitation and the way the geothermal water can be used. This book is focused on the effective use of geothermal water and renewable energy for future needs in order to promote modern, sustainable and effective management of water resources. The research field includes crucial new areas of study: an improvement in the management of freshwater resources through the use of residual geothermal water; a review of the technologies available in the field of geothermal water treatment for its re-use for energetic purposes and freshwater production and the development of balneotherapy. The book is aimed at professionals, academics and decision makers worldwide: water sector representatives and administrators, business enterprises specializing in renewable energy management and water treatment, working in the areas of geothermal energy usage, water resources, water supply and

energy planning This book has the potential to become a standard text used by educational institutions and research development establishments involved in the geothermal water management **Nuclear Science Abstracts** ,1975-04

Membrane Technologies for Heavy Metal Removal from Water Juhana Jaafar,Asad A. Zaidi,Muhammad Nihal Naseer,2024-02-12 This book offers lucid treatment of fundamental concepts related to potential applications and prospects of different membranes for wastewater decontamination by removing heavy metals Divided into four sections it provides an overview of different sources of water contamination their impacts on human health and the environment and compares traditional methods used to nullify these impacts Further it covers different mature membrane technologies such as polymeric membranes poly ceramic membranes carbon based membranes and many more followed by pertinent case studies Features Focuses on the removal of heavy metals using membrane based technologies Discusses pertinent criteria to select suitable membranes Includes feasibility studies and applications of different mature and emerging membranes Describes heavy metals occurrence and transport in an aqueous system with an overview of the adverse effects Reviews challenges and opportunities associated with using different membranes This book is aimed at graduate students and researchers in materials science water engineering and wastewater treatment **TID.** ,1959 *Electrically Conductive Membrane Materials and Systems* Farah Ahmed,Raed Hashaikeh,Nidal Hilal,2023-05-04 *Electrically Conductive Membrane Materials and Systems* offers in depth insight into the transformative role of electrically conductive materials in membrane separation processes for desalination and water treatment The book focuses on the intelligent design of conductive membranes and systems fouling and related phenomena fouling control using electrically conductive materials and electrically tunable membrane systems for microfiltration ultrafiltration nanofiltration reverse osmosis and membrane distillation With rising concerns around inaccessibility to freshwater and the ever increasing threats of population growth climate change and urban development the book brings electrically conducting materials to the forefront of membrane separation technology with an emphasis on their role in the mitigation of fouling and related phenomena Electrically conducting materials expand the versatility of membrane technology and ultimately improve access to safe water The book is important reading for scientists engineers entrepreneurs and enthusiasts from the water industry who seek to familiarize themselves with a groundbreaking area of study within modern desalination and water treatment Explores novel membrane materials and systems from preparation methods materials selection and their application in monitoring fouling control and performance enhancement Examines the mechanism of fouling prevention and cleaning in various electrically conductive materials Evaluates the scalability of antifouling materials and coatings as well as electrically enhanced processes for monitoring and control in membrane separation technology Assesses advantages and limitations of applying electrically conductive membrane systems to fouling control for specific water treatment applications Provides a critical review of scientific literature in the specialized area of electrical conductive materials and systems for membrane technology Reproductive and Developmental

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Glossman-Mitnik, 2022-05-18 Density Functional Theory DFT is a powerful technique for calculating and comprehending the molecular and electrical structure of atoms molecules clusters and solids Its use is based not only on the capacity to calculate the molecular characteristics of the species of interest but also on the provision of interesting concepts that aid in a better understanding of the chemical reactivity of the systems under study This book presents examples of recent advances new perspectives and applications of DFT for the understanding of chemical reactivity through descriptors forming the basis of Conceptual DFT as well as the application of the theory and its related computational procedures in the determination of the molecular properties of different systems of academic social and industrial interest **Encyclopedia of Renewable**

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