



Ion-Exchange Membrane Separation Processes (Membrane Science and Technology)

H Strathmann

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Today, membranes and membrane processes are used as efficient tools for the separation of liquid mixtures or gases in the chemical and biomedical industry, in water desalination and wastewater purification.

Despite the fact that various membrane processes, like reverse osmosis, are described in great detail in a number of books, processes involving ion-exchange membranes are only described in a fragmented way in scientific journals and patents; even though large industrial applications, like electro dialysis, have been around for over half a century. Therefore, this book is emphasizing on the most relevant aspects of ion-exchange membranes.

This book provides a comprehensive overview of ion-exchange membrane separation processes covering the fundamentals as well as recent developments of the different products and processes and their applications. The audience for this book is heterogeneous, as it includes plant managers and process engineers as well as research scientists and graduate students.

The separate chapters are based on different topics. The first chapter describes the relevant Electromembrane processes in a general overview. The second chapter explains thermodynamic and physicochemical fundamentals. The third chapter gives information about ion-exchange membrane preparation techniques, while the fourth and fifth chapter discusses the processes as unit operations giving examples for the design of specific plants.

1. First work on the principles and applications of electro dialysis and related separation processes.
2. Presently no other comprehensive work that can serve as both reference work and text book is available
3. Book is suited for teaching students and as source for detailed information

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Precisely why? Because this Ion-Exchange Membrane Separation Processes (Membrane Science and Technology) is an unordinary book that the inside of the guide waiting for you to snap the idea but latter it will jolt you with the secret the idea inside. Reading this book beside it was fantastic author who also write the book in such awesome way makes the content interior easier to understand, entertaining method but still convey the meaning completely. So , it is good for you because of not hesitating having this anymore or you going to regret it. This excellent book will give you a lot of positive aspects than the other book include such as help improving your skill and your critical thinking method. So , still want to hold up having that book? If I have been you I will go to the publication store hurriedly.

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