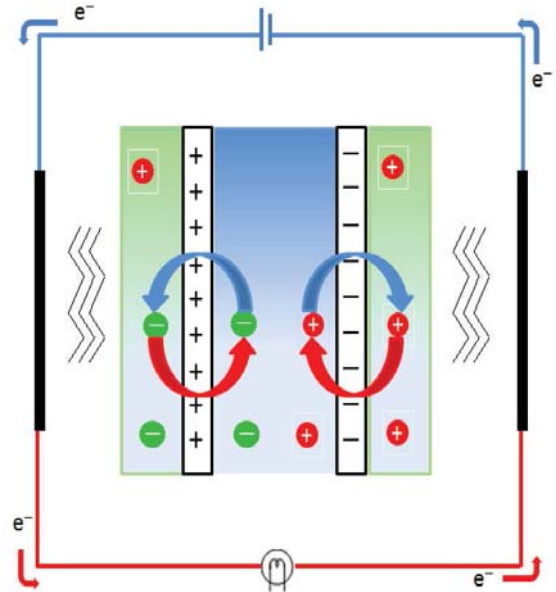


Ion-exchange Membrane Processes: Their Principle and Practical Applications

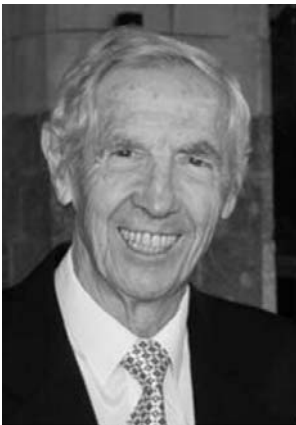
by
Heinrich Strathmann

In this book, the principles of the state-of-the-art ion-exchange membrane processes and their applications are described. Their technical advantages and limitations are discussed and their commercial relevance in various applications is indicated. More recently developed products and processes, such as the electrodialytic water dissociation with bipolar membranes or the continuous electrodeionization and the capacitive deionization as well as energy conversion and storage systems are also described along with their present and potential future applications. Ion-exchange membranes as key components, their preparation and functions will be discussed in detail. The thermodynamic and electrochemical fundamentals are briefly reviewed for a better understanding of the transport of charged components in solutions and ion-exchange membranes. Definitions of terms concerning the practical applications of ion-exchange membranes and processes are given.



From the Contents:

- Overview
- Electrochemical Fundamentals
- Membrane Preparation and Characterization
- Principles of Ion-Exchange Membrane Processes
- Process and Equipment Design
- Applications of Ion-Exchange Membranes



Dr. Heinrich Strathmann is Professor Emeritus of the University of Twente, The Netherlands and Associate Professor at the Institute of Chemical Process Engineering of the University of Stuttgart. His work in membrane science and technology covers a wide range of topics from the development of synthetic membranes to the practical applications of membrane processes. He served on the scientific advisory board of various companies and international organizations and wrote more than 200 papers and 3 books on the different aspects of membrane science and technology. He also worked for several years in the membrane based industry in Germany and the United States.

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by Heinrich Strathmann

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