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Separation Procedures in Biorefineries: Klara Valko - 2000-10-13

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Applications, like electrodialysis, 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 processes, including electrodialysis, reverse osmosis, forward osmosis, and hybrid membrane processes. The book also discusses the recent advancements in membrane materials, processes, and applications. The book is divided into five major sections: membrane properties and structure, membrane processes, membrane applications, membrane materials, and membrane processes.

**Membrane Systems Engineering**

The book presents a unified outlook on counter-current, ion size exclusion, supercritical fluids, high-performance thin layers, and gas and size exclusion chromatographic techniques used for the separation and purification of organic and inorganic substances. This book is a valuable resource for researchers, engineers, and scientists in the fields of chemical, process, environmental, and food engineering.

**Membrane Technology and Process Application**

This book presents a comprehensive overview of membrane technology and its applications in various industries. The book covers the fundamentals of membrane science, membrane materials, membrane processes, and membrane applications. The book is divided into three major sections: membrane science, membrane technology, and membrane applications.

**Membrane Separation Processes**

This book provides a comprehensive overview of membrane separation processes, including reverse osmosis, nanofiltration, ultrafiltration, microfiltration, and gas permeation. The book covers the fundamentals of membrane science and technology, membrane properties and structure, membrane processes, and membrane applications.

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