



Membrane Technology and Engineering for Water Purification: Application, Systems Design and Operation

Rajindar Singh

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Membrane Technology and Engineering for Water Purification, 2nd edition is written in a practical style with emphasis on: process description; key unit operations; systems design and costs; plant equipment description; equipment installation; safety and maintenance; process control; plant start-up; and operation and troubleshooting. It is supplemented by case studies and engineering rules-of-thumb. The author is a chemical engineer with extensive experience in the field, and his technical knowledge and practical know-how in the water purification industry are summarized succinctly in this new edition.

This book will inform you which membranes to use in water purification and why, where and when to use them. It will help you to troubleshoot and improve performance and provides case studies to assist understanding through real-life examples.

- Membrane Technology section updated to include forward osmosis, electrodialysis, and diffusion dialysis
- Hybrid Membrane Systems expanded to cover zero liquid discharge, salt recovery and removal of trace contaminants
- Includes a new section on plant design, energy, and economics



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