



Membrane Processes for Water Reuse

Anthony Wachinski

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COST-EFFECTIVE MEMBRANE SOLUTIONS FOR WATER AND WASTEWATER REUSE APPLICATIONS

Written by a water and wastewater industry expert with more than 35 years of experience, this book describes how membrane technology can be used alone, coupled with aerobic or anaerobic processes, or as integrated membrane systems to process treated municipal effluent or industrial wastewater for discharge, recycle, or reuse.

After reviewing chemistry fundamentals and basic principles, *Membrane Processes for Water Reuse* covers microfiltration, ultrafiltration, nanofiltration, reverse osmosis, and membrane coupled bioprocesses. The design, sizing, and selection of membrane technologies for water recycling and reuse applications is discussed in detail. Wastewater reuse case studies and example problems illustrate the concepts presented in this practical, authoritative guide.

Coverage includes:

- Water reuse overview
- Water quality
- Basic concepts of membrane filtration processes
- Low pressure membrane technology--microfiltration and ultrafiltration
- Diffusive membrane technologies--nanofiltration and reverse osmosis
- Membrane-coupled bioprocess
- Design of membrane systems for water recycling and reuse
- Future trends and challenges

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