



Membrane Technology and Applications

Richard W. Baker

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“... *the best handbook on membrane technology, which is currently on the market...* ” –Membrane News (on the previous edition)

Building on the success of the previous edition, *Membrane Technology and Applications Third Edition* provides a comprehensive overview of separation membranes, their manufacture and their applications. Beginning with a series of general chapters on membrane preparation, transport theory and concentration polarization, the book then surveys several major areas of membrane application in separate chapters. Written in a readily accessible style, each chapter covers its membrane subject thoroughly, from historical and theoretical backgrounds through to current and potential applications. Topics include reverse osmosis, ultrafiltration, pervaporation, microfiltration, gas separation and coupled and facilitated transport; chapters on electrodialysis and medical applications round out the coverage.

NEW TO THE THIRD EDITION

- New sections on the use of membranes in the chlor-alkali industry, membrane distillation, pressure retarded osmosis and constant flux-variable pressure ultrafiltration
- Zeolite and ceramic membranes, submerged membrane modules, and fuel cell membranes
- Substantially enhanced chapters on ultrafiltration, pervaporation and membrane contactors
- Updates to every chapter to reflect the developments in the field

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