



# Membrane Handbook

By Winston Ho, Kamalesh Sirkar

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Membrane processes have wide industrial applications. This handbook reviews the published literature, covering many existing and emerging technologies, presents an in-depth description of commercial uses in the chemical, petrochemical, petroleum, and commercialized membrane processes, and gives a state-of-the-art review of new membrane processes in environmental, water treatment, pharmaceutical, medical, food, dairy, beverage, paper, textile, and electronic industries. The existing applications are to be a single source of underlying principles, membranes, membrane modules, process descriptions, and cost estimates. It is also electrodialysis for the desalination of brackish water, a first attempt to bridge the gap between the water to produce potable water, (3) reverse osmosis for the desalination of seawater, (4) There are several groups which may benefit ultrafiltration for the concentration of large proteins from this handbook. It can be used as educational material for industrial personnel engaged in the separation of milk, and (5) microfiltration for the sterilization in membrane separations. For scientists and engineers active in research and development in pharmaceutical and medical products, beer, wine, and soft drinks. Since membrane processes are synthetic membranes, it will serve as a single source of reference for the entire field.



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## Membrane Handbook By Winston Ho, Kamalesh Sirkar Bibliography

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