



# 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 membrane processes, presents an in-depth description of common uses in the chemical, petrochemical, petroleum, commercialized membrane processes, and gives a state-of-the-art review of new membrane processes for environmental, water treatment, pharmaceutical, medical, food, dairy, beverage, paper, and textile concepts under development. It is intended to be a single source of underlying principles, membranes, membrane modules, process descriptions include: (1) dialysis for the purification of human blood (the artificial kidney), (2) sign applications, and cost estimates. It is also electro dialysis for the desalination of brackish 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 molecules from cheese, casein whey, and material for industrial personnel engaged milk, and (5) microfiltration for the sterilization in membrane separations. For scientists and of pharmaceutical and medical products, beer, engineers active in research and development in wine, and soft drinks. Since membrane processes synthetic membranes, it will serve as a single source generally have low capital investment, as source of reference for the entire field.



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