



Membrane Distillation: Principles and Applications

By Mohamed Khayet Souhaimi, Takeshi Matsuura

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Modern membrane engineering is critical to the development of process-intensification strategies and to the stimulation of industrial growth. Membrane Distillation (MD) is a broad reference that covers specific information on membranes available and methods for MD membrane preparation and characterization. The book offers an introduction to the terminology and fundamental concepts as well as a historical review of MD development. Commercial membranes used in MD as well as laboratory-made membranes, including emerging membranes, are described in detail and illustrated by a number of clear and instructive schematic drawings and images.

- A comprehensive review on the development of MD membranes, MD modules, MD membrane characterization, MD configurations, applications in different areas and theoretical models
- Introduction to the terminology and fundamental concepts associated with MD as well as an historical review of MD development
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Editorial Review

About the Author

Professor Takeshi Matsuura received his B.Sc. (1961) and M.Sc. (1963) degrees from the University of Tokyo. He went to Germany to pursue his doctoral studies at the Institute of Chemical Technology of the Technical University of Berlin and received Doktor-Ingenieur in 1965.

After working at the Department of Synthetic Chemistry of the University of Tokyo as an assistant and at the Department of Chemical Engineering of the University of California as a postdoctoral research associate, he joined the National Research Council of Canada in 1969. He came to the University of Ottawa in 1992 as a professor and the chairholder of the British Gas/NSERC Industrial Research Chair. He served as a professor of the Department of Chemical Engineering and the director of the Industrial Membrane Research Institute (IMRI) until he retired in 2002. He was appointed to Professor Emeritus in 2003. He served also at the Department of Chemical and Environmental Engineering of the National University of Singapore as a visiting professor in 2003, and at University Technology Malaysia (UTM), Skudai, Malaysia (currently at the Advanced Membrane Technology Research Centre (AMTEC) of UTM), as a distinguished visiting professor, in the years 2007, and 2009-2016.

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