

WATER SUPPLY DEVELOPMENT, AQUIFER STORAGE, AND CONCENTRATE DISPOSAL FOR MEMBRANE WATER TREATMENT FACILITIES

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Membrane treatment is now considered by the US Environmental Protection Agency as the "best available technology" for potable water treatment. Membrane treatment facilities operate most efficiently and cost-effectively by using raw water containing a constant chemistry with low concentrations of foulants, such as organic compounds and bacteria. This book addresses methods to develop raw water supplies that have constant water chemistry and to reduce the concentrations of potential foulants that cause pretreatment processes to be added to the plant design. Evaluation and design of water supplies for all membrane processes using both surface-water sources and groundwater sources are covered. Discussions also include concentrate disposal and its effect on facility design as well as aquifer storage and recovery used to improve facility operational efficiency.

This book is the first in a planned series, *Methods in Water Resources Evaluation*, to be published by Schlumberger. It is intended to be used as a design and reference text for water resources professional engineers, hydrogeologists, and water treatment plant operators and as a university textbook.

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