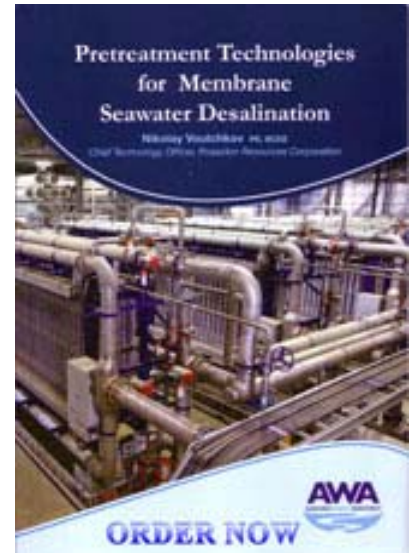


# Pretreatment Technologies for Membrane Seawater Desalination

by Nikolay Voutchkov PE, BCEE  
Chief Technology Officer, Poseidon Resources Corporation  
ISBN 978-1-921335-05-1

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Nikolay Voutchkov, Chief Technology Officer,  
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Seawater pretreatment holds the key to successful and cost-effective desalination. This book presents an overview of pretreatment challenges facing most reverse osmosis seawater desalination plants today and provides practical solutions derived from worldwide experience. The reader will find guidelines for selection of pretreatment system configuration based on source seawater quality and for design of the most commonly used pretreatment technologies, such as screening, sand removal, sedimentation, dissolved air flotation, granular media filtration and membrane filtration. The author shares insights on the present and future use of ultra and microfiltration membrane technologies and their advantages and limitations for seawater pretreatment

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