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Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	; Machine generated contents note: ; 1. Introduction to Saline Water Pretreatment -- ; 1.1. Purpose of Pretreatment -- ; 1.2. Membrane-Fouling Mechanisms -- References -- ; 2. Membrane Foulants and Saline Water Pretreatment -- ; 2.1. Introduction -- ; 2.2. Particulate Foulants -- ; 2.3. Colloidal Foulants -- ; 2.4. Mineral-Scaling Foulants -- ; 2.5. Natural Organic Foulants -- ; 2.6. Microbial Foulants -- ; 2.7. Combined Effect of Various Foulants on Membrane Performance -- References -- ; 3. Diagnostics of Membrane Fouling and Scaling -- ; 3.1. Purpose of Membrane Fouling and Scaling Diagnostics -- ; 3.2. Typical Membrane-Fouling Phenomena -- ; 3.3. Typical Diagnostics Procedures -- ; 3.4. Membrane Autopsy -- References -- ; 4. Saline Water Intakes and Pretreatment -- ; 4.1. Introduction -- ; 4.2. Subsurface Intakes -- ; 4.3. Open Intakes -- References -- ; 5. Pretreatment by Screening -- ; 5.1. Introduction -- ; 5.2. Bar, Band, and Drum Screens -- ; 5.3. Microscreens -- ; 5.4. Cartridge Filters -- References -- ; 6. Conditioning of Saline Water -- ; 6.1. Introduction -- ; 6.2. Coagulation -- ; 6.3. Flocculation -- ; 6.4. Addition of Scale Inhibitors -- ; 6.5. Addition of Sodium Hydroxide -- ; 6.6. Addition of Biocides -- ; 6.7. Addition of Reducing Compounds -- ; 6.8. Planning and Design Considerations for Source Water Conditioning -- References -- ; 7. Sand Removal, Sedimentation, and Dissolved Air

Flotation -- ; 7.1. Introduction -- ; 7.2. Sand Removal Systems -- ; 7.3. Sedimentation Tanks -- ; 7.4. Dissolved Air Flotation Clarifiers -- ; 7.5. Construction Costs of Lamella Settlers and DAF Clarifiers -- References -- ; 8. Granular Media Filtration -- ; 8.1. Introduction -- ; 8.2. The Filter Operation Cycle -- ; 8.3. Key Filtration System Components -- ; 8.4. Filter Types and Configurations -- ; 8.5. Filter Performance -- ; 8.6. Source Water Pretreatment Prior to Granular Media Filtration -- ; 8.7. Planning and Design Considerations -- ; 8.8. Construction Costs of Granular Media Filtration Systems -- References -- ; 9. Membrane Filtration -- ; 9.1. Introduction -- ; 9.2. The Membrane Filtration Process -- ; 9.3. Key Filtration System Components -- ; 9.4. Filter Types and Configurations -- ; 9.5. Filter Performance -- ; 9.6. Planning and Design Considerations -- ; 9.7. Overview of Membrane Products Used for Saline Water Pretreatment -- ; 9.8. Design Examples -- ; 9.9. Construction Costs of Membrane Pretreatment System -- References -- ; 10. Comparison of Granular Media and Membrane Pretreatment -- ; 10.1. Introduction -- ; 10.2. Effect of Source Water Quality on Performance -- ; 10.3. Surface Area Requirements -- ; 10.4. Quantity and Quality of Generated Residuals -- ; 10.5. Chemical Use -- ; 10.6. Power Use -- ; 10.7. Economy of Scale -- ; 10.8. Filtration Media Replacement Costs -- ; 10.9. Commoditization -- ; 10.10. Water Production Costs -- ; 10.11. Concluding Remarks -- References -- ; 11. Guidelines for Pretreatment System Selection -- ; 11.1. Introduction -- ; 11.2. Pretreatment Selection Guidelines -- ; 11.3. Additional Considerations for Selection of Pretreatment -- References -- ; 12. Reverse Osmosis System Design and Pretreatment -- ; 12.1. Overview of Typical SWRO Desalination System -- ; 12.2. SWRO Membrane Elements -- Key Types and Pretreatment Considerations -- ; 12.3. Internally Staged Membrane Configuration -- Fouling Implications -- ; 12.4. Alternative SWRO-Membrane Systems and Pretreatment -- ; 12.5. Alternatives for Control of Microbial Fouling -- References.

2. Record Nr.	UNISANNIORMS0024168	
Autore	Snyder, Wesley E.	
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Pubbl/distr/stampa	Englewood Cliffs (N.J.), : Prentice-Hall, c1985	
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	0134631919	
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