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Nota di contenuto	Cover; Title Page; Copyright Page; Contents; Preface; Acknowledgements for the First Edition; Acknowledgements for the Second Edition; Part 1: Fundamentals; 1 Introduction and History of Development; 1.1 Introduction; 1.1.1 Uses of Reverse Osmosis; 1.1.2 History of Reverse Osmosis Development; 1.1.3 Recent Advances in RO Membrane Technology; 1.1.4 Future Advancements; 1.1.5 Advances Since First Edition of this Book; References; 2 Reverse Osmosis Principles; 2.1 Osmosis; 2.2 Reverse Osmosis; 2.3 Dead-End Filtration; 2.4 Cross-Flow Filtration; 3 Basic Terms and Definitions 3.1 Reverse Osmosis System Flow Rating3.2 Recovery; 3.3 Rejection; 3.4 Flux; 3.5 Concentration Polarization; 3.6 Beta; 3.7 Fouling; 3.8 Scaling; 3.9 Silt Density Index; 3.10 Modified Fouling Index; 3.11 Langelier Saturation Index; References; 4 Membranes; 4.1 Transport Models; 4.1.1 Solution-Diffusion Model (non-porous model); 4.1.2 Solution-Diffusion Imperfection Model (porous model); 4.1.3 Finely- Porous Model (porous model); 4.1.4 Preferential Sorption - Capillary Flow Model (porous model); 4.1.5 Phenomenological Transport

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Modules; 4.3.3 Spiral Wound Modules; 4.3.4 Hollow Fine Fiber
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4.4.2 Brackish Water Membranes; References; 5 Basic Flow Patterns; 5.1
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6.8 Reverse Osmosis Skid; 6.9 Auxiliary Equipment; 6.10 Other Design
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8.1.7 Spent Resin Filters; 8.1.8 Ultraviolet Irradiation; 8.1.9 Membrane;
8.2 Chemical Pretreatment; 8.2.1 Chemical Oxidizers for Disinfection of
Reverse Osmosis Systems; 8.2.2 Non-Oxidizing Biocides; 8.2.3 Sodium
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