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Titolo	Membranes for Water Treatment and Remediation // edited by Ashok Kumar Nadda, Priya Banerjee, Swati Sharma, Phuong Nguyen-Tri
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Nota di contenuto	Polymeric Membranes for Water Treatment and Desalination -- Sustainable Wastewater Treatment using Membrane Technology -- Polymeric Nanocomposite Membranes for Treatment of Industrial Effluents -- Polymeric Nano-composite Membranes for Wastewater Treatment -- Membrane based Technologies for Industrial Wastewater Treatment -- Membrane Bioreactor: A Potential Stratagem for Wastewater Treatment -- Removal of Toxic Emerging Pollutants using Membrane Technologies -- Biopolymeric Hydrogels: A New Era in Combating Heavy Metal Pollution in Industrial Wastewater -- Resource Recovery by using Polymer Membrane -- Antibacterial and Antifouling Properties of Polymer Membranes -- Life Cycle Analysis of Membrane Processes.
Sommario/riassunto	This book provides comprehensive description of polymeric membranes in water treatment and remediation. It describes both the sustainability challenges and new opportunities to use membranes for water decontamination. It also discusses the environmental-related

issues, challenges and advantages of using membrane-based systems and provides comprehensive description of various polymeric membranes, nanomaterials, biomolecules and their integrated systems for wastewater treatment. Various topics covered in this book are direct pressure-driven and osmotic-driven membrane processes, hybrid membrane processes (such as membrane bioreactors and integrating membrane separation with other processes), and resource recovery-oriented membrane-based processes. The book will be useful for students, researchers and professionals working in the area of materials science and environmental chemistry.
