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Sommario/riassunto

This book focuses on experimental methods for membrane applications in desalination and water treatment, addressing the critical issue of water quality. It explores various membrane processes such as microfiltration, ultrafiltration, reverse osmosis, forward osmosis, and membrane distillation. Key topics include fouling, scaling, performance assessment, and modeling of membrane systems. The book aims to improve the feasibility and effectiveness of these technologies to tackle global water scarcity, particularly in developing countries. It serves as a resource for engineering students, researchers, plant operators, and professionals in the water sector, offering insights from experts in the field.