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Sommario/riassunto	This book can of interest to undergraduate and graduate engineering students and researchers, academics, plant operators, consultants, professionals and practitioners in the water sector. The book is not necessarily intended to be read from cover to cover, but consulted as the need arises. The content of this book deals with: Membrane-based desalination Basic principles of reverse osmosis Fouling and pre-treatment Particulate fouling Organic and biological fouling Algal bloom events Inorganic fouling Scaling Process design Recent advances and emerging processes This book forms part of the Master of Science curriculum in Water Supply Engineering and of the Master of Science Programme in Water and Sustainable Development at IHE Delft Institute for Water Education.