



Principles of Membrane Bioreactors for Wastewater Treatment

By Hee-Deung Park, In-Soung Chang, Kwang-Jin Lee

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Principles of Membrane Bioreactors for Wastewater Treatment covers the basic principles of membrane bioreactor (MBR) technology, including biological treatment, membrane filtration, and MBR applications. The book discusses concrete principles, appropriate design, and operational aspects.

It covers a wide variety of MBR topics, including filtration theory, membrane materials and geometry, fouling phenomena and properties, and strategies for minimizing fouling. Also covered are the practical aspects such as operation and maintenance.

Case studies and examples in the book help readers understand the basic concepts and principles clearly, while problems presented help advance relevant theories more deeply. Readers will find this book a helpful resource to understand the state of the art in MBR technology.

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Editorial Review

About the Author

Hee-Deung Park is an associate professor at the School of Civil, Environmental and Architectural Engineering in Korea University, Seoul. He received his PhD in environmental engineering from the University of Wisconsin–Madison and conducted postdoctoral research at Stanford University. Prior to joining the faculty at Korea University, he worked at Kolon Engineering and Construction. Dr. Park's research interests involve identifying microbial community compositions in environmental engineering settings such as activated sludge reactors, anaerobic digesters, and membrane filters, and exploring the correlations between community information and the function of environmental engineering systems.

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Kwang-Jin Lee is a PhD candidate at the School of Civil, Environmental and Architectural Engineering in Korea University, where he also received his MS and BS in physical chemistry. He has worked at Kolon Industries, Inc. as a researcher. He developed Cleanfil®-S Series of modules, which are now widely used in the environmental market. His research interests include the fabrication of nano-scaled material based membranes such as carbon nanotubes and analyzing the basic mechanisms of membrane performance.

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