



## Membrane Bioreactor Processes: Principles and Applications (Advances in Water and Wastewater Transport and Treatment)

By Seong-Hoon Yoon

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*Grasp the Essential Principles of Membrane Bioreactor Processes*

Evolved from the conventional activated sludge (CAS) process, membrane bioreactor (MBR) processes have become the next-generation solution for municipal and industrial wastewater treatment and recycle. **Membrane Bioreactor Processes: Principles and Applications** explores nearly all the theoretical and practical aspects of membrane bioreactor technologies. Using the author's expertise obtained from academia and industry, this book provides the crucial details on MBR technology that that you need to know. The book details the theoretical and practical backgrounds of current practices involved with membrane module design, biological and membrane system design, system optimization, and system operation.

Outlines the State of the Art of the Membrane Bioreactor Technology

The text discusses the fundamentals of membrane filtration, emphasizing the principles of submerged membrane filtration. It also explores the complex interaction among key design and operating parameters, offers comprehensive explanations on the interconnectivity between biological and membrane systems, and covers new findings discovered in recent years. This book clearly explains how small-scale systems perform differently from larger-scale systems and its implications in data interpretation. Using this book as a platform, the technology can be developed further and quickly applied in future processes.

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**Membrane Bioreactor Processes: Principles and Applications (Advances in Water and Wastewater Transport and Treatment) By Seong-Hoon Yoon Bibliography**

- Sales Rank: #2809941 in Books
- Published on: 2015-06-23
- Original language: English
- Number of items: 1
- Dimensions: 10.00" h x 1.10" w x 7.10" l, .0 pounds
- Binding: Hardcover
- 452 pages

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#### Review

"... bridges the gap between academic research and the practical know-how obtained from the field. It is a must-read for anybody that wants to understand the state of the art of the membrane bioreactor process and gain insight into the fundamental science behind it."

?Dr. Pierre Côté, COTE Membrane Separation Ltd

"Seong-Hoon Yoon's strong academic background, coupled with his many years of practical experience in industry, are evident in this very informative book. I think that this will become essential reading for anyone involved in MBR applications and research."

?Professor A.G. (Tony) Fane, Singapore Membrane Technology Centre, Nanyang Technological University, Singapore

"... spans the range of knowledge needed, beginning with the fundamental principles of membrane systems and continuing through to practical aspects of the design and operation of complete systems. Throughout, the combination of in-depth and practical knowledge of the author, along with his ability to convey this knowledge in a clear and compelling fashion, shines through ..."

?Dr. Glen T. Daigger, One Water Solutions

"This book provides by far the most comprehensive information to academic researchers and industry practitioners who wish to study and practice membrane bioreactor technology. I cannot wait to use this book as a reference for my undergraduate and graduate courses at Yale University."

?Jaehong Kim, Professor of Environmental Engineering, Yale University

#### About the Author

**Seong-Hoon Yoon** is a senior staff engineer of Nalco, an Ecolab company, located in Illinois, USA, where he has served since 2001. He received his BS, MS, and PhD degrees in chemical technology from Seoul National University in 1991, 1994, and 1998, respectively. Dr. Yoon was a research engineer at the LG group in Seoul, Korea, before joining Nalco. Throughout his career, Dr. Yoon has been dedicated to advancing water treatment processes with an emphasis on membrane separation. His interests include water reuse and recycle; chemical, biological, and physical water treatment; gas transfer membranes; and information and communication technologies for remote monitoring and control.

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