



Activated Sludge and Aerobic Biofilm Reactors: Biological Wastewater Treatment Volume 5

By Marcos Von Sperling

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Activated Sludge and Aerobic Biofilm Reactors is the fifth volume in the Biological Wastewater Treatment series. The first part of the book is devoted to the activated sludge process, covering the removal of organic matter, nitrogen and phosphorus. A detailed analysis of the biological reactor (aeration tank) and the final sedimentation tanks is provided. The second part of the book covers aerobic biofilm reactors, especially trickling filters, rotating biological contactors and submerged aerated biofilters. For all the systems, the book presents in a clear and concise way the main concepts, working principles, expected removal efficiencies, design criteria, design examples, construction aspects and operational guidelines. The Biological Wastewater Treatment series is based on the book Biological Wastewater Treatment in Warm Climate Regions and on a highly acclaimed set of best selling textbooks. This international version is comprised by six textbooks giving a state-of-the-art presentation of the science and technology of biological wastewater treatment. Other books in the Biological Wastewater Treatment series: Volume 1: Wastewater characteristics, treatment and disposal Volume 2: Basic principles of wastewater treatment Volume 3: Waste stabilisation ponds Volume 4: Anaerobic reactors Volume 6: Sludge treatment and disposal

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- Sales Rank: #3689146 in Books
- Brand: Brand: IWA Publishing
- Published on: 2007-01-05
- Original language: English
- Number of items: 1
- Dimensions: 9.21" h x .71" w x 6.14" l, 1.05 pounds
- Binding: Paperback
- 340 pages

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