



Nitrification and Denitrification in the Activated Sludge Process

Michael H. Gerardi

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Nitrification and Denitrification in the Activated Sludge Process, the first in a series on the microbiology of wastewater treatment, comprises the critical topics of cost-effective operation, permit compliance, process control, and troubleshooting in wastewater treatment plants. Avoiding the technical jargon, chemical equations, and kinetics that typically accompany such texts, Nitrification and Denitrification in the Activated Sludge Process directly addresses plant operators and technicians, providing necessary information for understanding the microbiology and biological conditions that occur in the treatment process.

Of special interest to wastewater treatment plant operators are the bacteria that degrade nitrogenous wastes—the nitrifying bacteria—and the bacteria that degrade carbonaceous wastes—the cBOD-removing bacteria. Both groups of bacteria need to be routinely monitored and operational conditions favorably adjusted to ensure desired nitrification. Each chapter in this groundbreaking study offers a better understanding of the importance of nitrification and denitrification and the bacteria involved in these crucial processes. Chapters include:

- Organotrophs
- The Wastewater Nitrogen Cycle
- Nitrite Ion Accumulation
- Dissolved Oxygen
- Denitrifying Bacteria
- Gaseous End Products
- Free Molecular Oxygen
- The Occurrence of Denitrification

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This Nitrification and Denitrification in the Activated Sludge Process book is not really ordinary book, you have it then the world is in your hands. The benefit you will get by reading this book will be information inside this publication incredible fresh, you will get data which is getting deeper anyone read a lot of information you will get. This specific Nitrification and Denitrification in the Activated Sludge Process without we realize teach the one who reading through it become critical in contemplating and analyzing. Don't become worry Nitrification and Denitrification in the Activated Sludge Process can bring if you are and not make your handbag space or bookshelves' come to be full because you can have it within your lovely laptop even telephone. This Nitrification and Denitrification in the Activated Sludge Process having fine arrangement in word in addition to layout, so you will not sense uninterested in reading.

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