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Wastewater Microbiology (Wiley Series in Ecological and Applied Microbiology)

Gabriel Bitton

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This is the new edition of a classic reference incorporating the latest findings and discoveries. The Third Edition of this classic reference provides readers with concise, up to the moment coverage of the role of microorganisms in water and wastewater treatment. By providing a solid foundation in microbiology, microbial growth, metabolism, and nutrient cycling, the text gives readers the tools they need to make critical decisions that affect public health, as well as the practical aspects of treatment, disinfection, water distribution, bioremediation, and water and wastewater reuse. The publication begins a discussion of microbiology principles, followed by a discussion of public health issues and concerns. Next, the core of the text is dedicated to a thorough examination of wastewater and drinking water treatment, biosolids, pollution control biotechnology, and drinking water distribution. The remainder of the text discusses toxicity testing in wastewater treatment plants, and the public health aspects of wastewater disposal and reuse. The many advances in wastewater and drinking water microbiology have all been thoroughly integrated into the publication, including: a new chapter on bioterrorism and drinking water safety; the latest developments in biofilm microbial ecology and biofilm impact on drinking water quality; new, state of the art detection techniques; expanded and revised treatment of toxicity testing, including new testing methods and studies on endocrine disrupters in wastewater; and, alternatives to conventional wastewater treatment. New problem sets, which test readers knowledge, as well as a list of Internet resources have been added to each chapter. In addition, the publication's extensive references have been thoroughly revised for readers who would like to learn more about the latest findings and discoveries on specialized topics. Finally, the color plate section has been expanded and contains many new illustrations and tables. An authoritative guide for all researchers, administrators, and engineers in the field of microbiology, "Wastewater Microbiology, Third Edition" is also a valuable reference for civil and environmental engineers, public health officials, and students involved in environmental engineering and science.

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