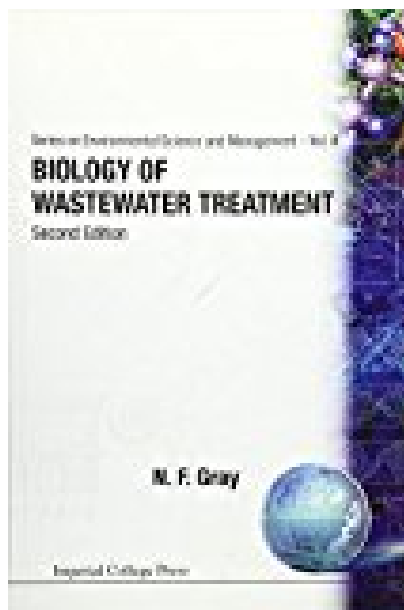


Biology of Wastewater Treatment Second Edition Series on Environmental Science and Management & Vol. 4



BOOK DETAILS

- Author : Nick F Gray
- Pages : 1444 Pages
- Publisher : Imperial College Press
- Language : English
- ISBN : 1860943322

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BOOK SYNOPSIS

This comprehensive text provides the reader with both a detailed reference and a unified course on wastewater treatment. Aimed at scientists and engineers, it deals with the environmental and biological aspects of wastewater treatment and sludge disposal. The book starts by examining the nature of wastewaters and how they are oxidized in the natural environment. An introductory chapter deals with wastewater treatment systems and examines how natural principles have been harnessed by man to treat his own waste in specialist reactors. The role of organisms is considered by looking at kinetics, metabolism and the different types of micro-organisms involved. All the major biological process groups are examined in detail, in highly referenced chapters; they include fixed film reactors, activated sludge, stabilization ponds, anaerobic systems and vegetative processes. Sludge treatment and disposal is examined with particular reference to the environmental problems associated with the various disposal routes. A comprehensive chapter on public health looks at the important waterborne organisms associated with disease, as well as removal processes within treatment systems. Biotechnology has had an enormous impact on wastewater treatment at every level, and this is explored in terms of resource reuse, biological conversion processes and environmental protection. Finally, there is a short concluding chapter that looks at the sustainability of wastewater treatment. The text is fully illustrated and supported by over 3000 references.

Contents: How Nature Deals with Waste How Man Deals with Waste The Role of Organisms Fixed-Film Reactors Activated Sludge Natural Treatment Systems Anaerobic Unit Processes Sludge Treatment and Disposal Public Health Biotechnology and Wastewater Treatment

Readership: Graduate students in wastewater technology. Reviews: "Anyone interested in the biology of wastewater treatment will find this book useful." *Biotechnology Advances* "... is both well written and informative and it should appeal to anyone with an interest in wastewater treatment. It covers the ground in sufficient depth to stay useful throughout one's entire career, serving as an essential reference, allowing one to dive in and out at will as one's needs dictate ... manages to fulfil what I believe to be its aim of bridging the gap between wastewater engineering and its underlying biology." *Journal of the Chartered Institution of Water and Environmental Management*

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