

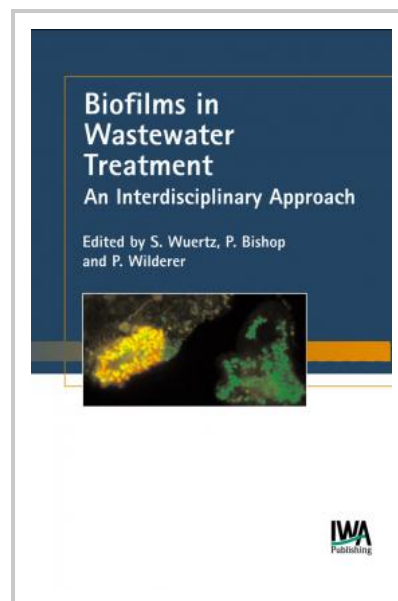
# Biofilms in Wastewater Treatment

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The central theme of the book is the flow of information from experimental approaches in biofilm research to simulation and modeling of complex wastewater systems. Probably the greatest challenge in wastewater research lies in using the methods and the results obtained in one scientific discipline to design intelligent experiments in other disciplines, and eventually to improve the knowledge base the practitioner needs to run wastewater treatment plants.

The purpose of **Biofilms in Wastewater Treatment** is to provide engineers with the knowledge needed to apply the new insights gained by researchers. The authors provide an authoritative insight into the function of biofilms on a technical and on a lab-scale, cover some of the exciting new basic microbiological and wastewater engineering research involving molecular biology techniques and microscopy, and discuss recent attempts to predict the development of biofilms.

This book is divided into 3 sections: **Modeling and Simulation; Architecture, Population Structure and Function;** and **From Fundamentals to Practical Application**, which all start with a scientific question. Individual chapters attempt to answer the question and present different angles of looking at problems. In addition there is an extensive glossary to familiarize the non-expert with unfamiliar terminology used by microbiologists and computational scientists.



[The colour plate section of this book can be downloaded by clicking here.](#) (PDF Format 1 MB)

**Publication Date:** 30/04/2003

**ISBN13:** 9781843390077

**eISBN:** 9781780402741

**Pages:** 400

**Print:**

**Standard price:** £136 / €170 / \$204

**Member price:** £102 / €128 / \$153

**eBook:**

**Standard price:** £136 / €170 / \$204

**Member price:** £102 / €128 / \$153