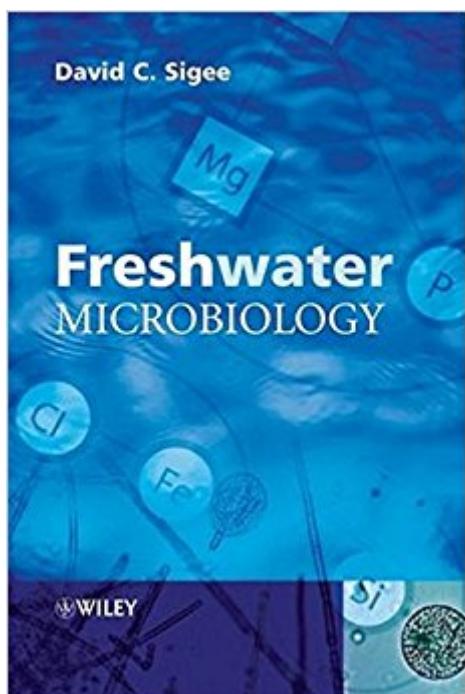


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# **Freshwater Microbiology: Biodiversity And Dynamic Interactions Of Microorganisms In The Aquatic Environment**



## Synopsis

This unique textbook takes a broad look at the rapidly expanding field of freshwater microbiology. Concentrating on the interactions between viruses, bacteria, algae, fungi and micro-invertebrates, the book gives a wide biological appeal. Alongside conventional aspects such as phytoplankton characterisation, seasonal changes and nutrient cycles, the title focuses on the dynamic and applied aspects that are not covered within the current textbooks in the field. Complete coverage of all fresh water biota from viruses to invertebrates Unique focus on microbial interactions including coverage of biofilms, important communities on all exposed rivers and lakes. New information on molecular and microscopical techniques including a study of gene exchange between bacteria in the freshwater environment. Unique emphasis on the applied aspects of freshwater microbiology with particular emphasis on biodegradation and the causes and remediation of eutrophication and algal blooms.

## Book Information

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## Customer Reviews

"The wide-ranging coverage of this book makes it useful as a reference for researchers and students and also as a possible textbook." (E-STREAMS, May 2006) "...diagrams are clear and relevant, tables are informative. The bibliography is substantial..." (Times Higher Education Supplement, 24th Feb 2006) "A valuable addition to the literature on aquatic microbiology A an excellent textbook for all students who have an interest in this exciting field A of value to scientists who conduct research on aquatic microorganisms A"!

(Microbe, January 2006) "A clear treatment of the ecological aspects surrounding the study of freshwater microbial systems" (Journal of Natural Products, October 2005) "Sige...has combined the multiple biological disciplines...to give a well-rounded understanding of freshwater microbiology." (CHOICE, September 2005) "At long last we have a book that treats 'freshwater microbiology' in its entirety...this will make an excellent general reference work." (Microbiology Today, 31st July 2005)

Freshwater Microbiology presents a broad overview of the biodiversity and interactions of microorganisms within a wide range of freshwater environments including lakes, rivers, wetlands, snowfields, aquifers and various extreme situations. The book offers a novel perspective on aquatic systems in considering freshwater biology from a microbial viewpoint and including separate chapters on algae, bacteria, viruses, fungi and protozoa within a single volume. Both applied and theoretical aspects of freshwater biology are presented concisely with numerous case studies, figures and tables throughout the book. A detailed overview of all groups of microorganisms within the freshwater environment. Integrates classical concepts of ecology with recent developments in cell and molecular biology. Considers freshwater microbiology from a global perspective. Includes case studies and numerous figures and tables. Written by an author with many years teaching and research experience, Freshwater Microbiology will prove invaluable to students and researchers in the fields of freshwater biology, algology, microbiology, environmental biology and conservation ecology.

Good introduction into microbial interactions in a freshwater environment. It is well organized and easy to read. I found it useful to my studies.

For the dedicated microbiologist this is another "fun" book with just the kind of information you like.

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