



Ground-Water Microbiology and Geochemistry

Francis H. Chapelle

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Up-to-date coverage and a unique, multidisciplinary approach

The ongoing effort to protect our valuable ground-water resources necessarily involves scientists and engineers from many disciplines. Ground-Water Microbiology and Geochemistry, Second Edition is designed to bridge the historical lack of communication among these disciplines by detailing-in language that cuts across specialties-the impact of microorganisms and microbial processes on ground-water systems.

Carefully revised to reflect the many recent discoveries that have been made in the field, the Second Edition begins with an overview of microbiology, ideal for hydrologists and others who may lack formal training in the field. These initial chapters systematically cover the kinds of microorganisms found in subsurface environments, focusing on their growth, metabolism, genetics, and ecology.

The second part of the book offers a hydrologic perspective on how microbial processes affect ground-water geochemistry in pristine systems. It also introduces the different classes of ground-water systems, and gives an overview of techniques for sampling subsurface environments. Readers gain an understanding of biogeochemical cycling in ground-water systems-in coverage unique to this book-and how ground-water chemistry can be used to study microbial processes in aquifer systems.

The final section of the book deals with the biodegradation of human-introduced contaminants in ground-water systems, with an up-to-date review of the physiology, biochemistry, and redox conditions that favor biodegradation processes.

Ground-Water Microbiology and Geochemistry, Second Edition is important reading for geoscientists, hydrologists, and environmental engineers, as well as for water planners and lawyers involved in environmental issues. It also serves as a compelling text for upper-level undergraduate and graduate courses in ground-water chemistry.

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