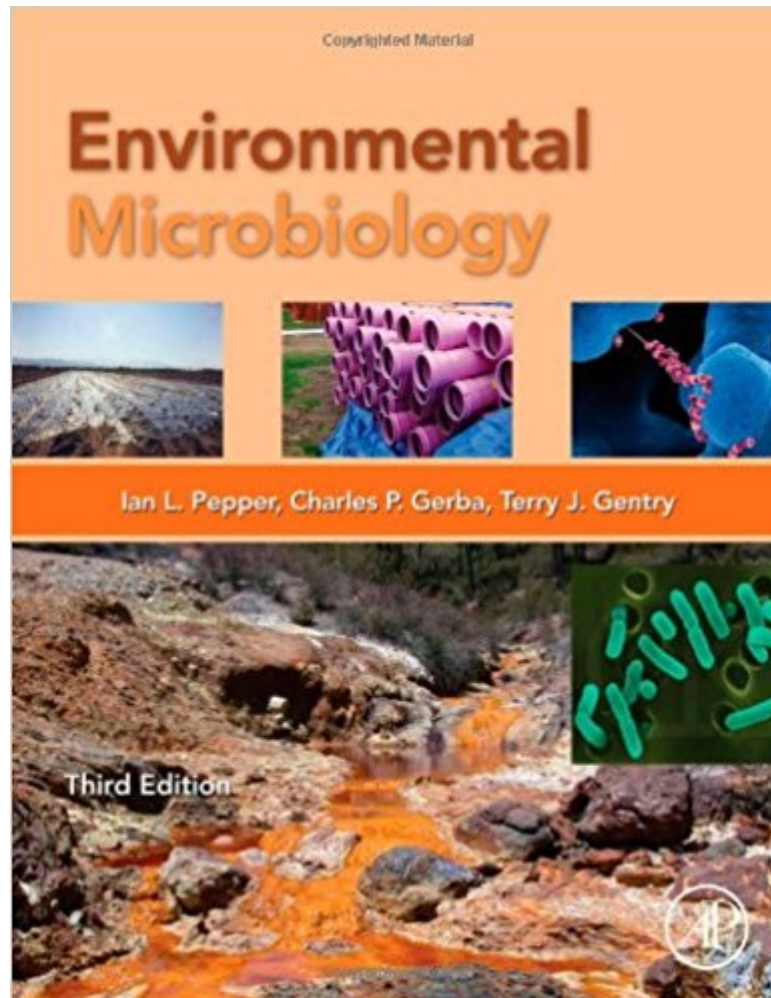




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Environmental Microbiology, Third Edition



Synopsis

Designed for advanced undergraduate students, graduate students, and environmental professionals, this book builds upon the tremendous success of the previous editions with a comprehensive and up-to-date discussion of environmental microbiology as a discipline that has greatly expanded in scope and interest over the past several decades. From terrestrial and aquatic ecosystems to urban and indoor environments, this edition relates environmental microbiology to a variety of life science, ecology, and environmental science topics including biogeochemical cycling, bioremediation, environmental transmission of pathogens, microbial risk assessment, and drinking water treatment and reuse. The final chapter highlights several emerging issues including microbial remediation of marine oil spills, microbial contributions to global warming, impact of climate change on microbial infectious disease, and the development of antibiotic-resistant bacteria. Presents state-of-the-art research results with key, recent references to document information. Emphasizes critical information using "Information Boxes" throughout. Includes real-world case studies to illustrate concepts, along with frequent use of graphics, cartoons and photographs. Offers questions at the end of each chapter designed to test key concepts. Lecture slides available for instructors online.

Book Information

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Customer Reviews

"One of the techniques used to make this a successful text is that chapters are written by experts in conjunction with one of the editors, thus presenting authoritative material at a similar complexity and style across chapters." --Quarterly Review of Biology

Dr. Ian Pepper is currently a Professor at the University of Arizona. He is also Director of the University of Arizona, Environmental Research Laboratory (ERL) and the NSF Water and Environmental Technology (WET) Center. Dr. Pepper is an environmental microbiologist specializing in the molecular ecology of the environment. His research has focused on the fate and transport of pathogens in air, water, soils and wastes. His expertise has been recognized by membership on six National Academy of Science Committees and former memberships on an EPA FIFRA Science and Advisory Panel. Dr. Pepper is a Fellow of the American Association for the Advancement of Science, American Academy of Microbiology, the Soil Science Society of America, and the American Society of Agronomy. He is also a Board Certified Environmental Scientist within the American Academy of Environmental Engineers and Scientists. He is the author or co-author of six textbooks; 40 book chapters; and over 180 peer-review journal articles.

Dr. Charles P. Gerba is a Professor at the University of Arizona. He conducts research the transmission of pathogens through the environment. His recent research encompasses the transmission of pathogens by water, food and fomites; fate of pathogens in land applied wastes; development of new disinfectants; domestic microbiology and microbial risk assessment. He has been an author on more than 500 articles including several books in environmental microbiology and pollution science. He is a fellow of the American Academy of Microbiology and the American Association for the Advancement of Science. In 1998 he received the A. P. Black Award from the American Water Works Association for outstanding contributions to water science and in 1996 he received the McKee medal from the Water Environment Federation for outstanding contributions to groundwater protection. He received the 1999 Award of Excellence in Environmental Health from National Association of County and City Health Officials.

Dr. Terry Gentry is currently an Assistant Professor at Texas A&M University and is also the Director of the Soil and Aquatic Microbiology Laboratory (SAML). He is an environmental microbiologist specializing in the development and use of molecular technologies to enhance the detection and remediation of environmental contamination. This includes the detection and identification of microbial pathogens from animal, human, and natural sources and also the characterization of microbial populations and communities contributing to applied remediation processes such as the bioremediation of organic and metal contaminants. He teaches undergraduate and graduate courses in environmental microbiology and environmental soil science. He is the author or co-author of over 45 peer-reviewed journal articles and 4 book chapters.

The book represents a big source for microbial ecology undergraduate students. This edition was

updated with the most current information about independent culture methods and microbiological analysis. However has some mistakes in mathematical dilutions problems.

It is an excellent book for teaching environmental microbiology

Perfect

:)

This textbook is well written. It is not too dry or hard to read. The content is presented well.

very good.

It is a reference book

Exactly what i needed.

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