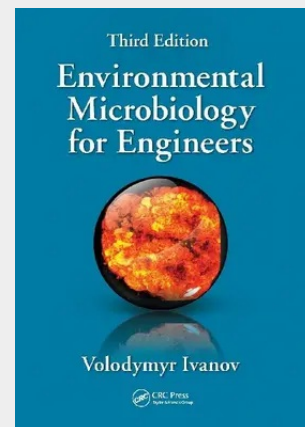


Environmental Microbiology for Engineers

The third edition of *Environmental Microbiology for Engineers* explores the role that microorganisms play in the engineered protection and enhancement of an environment. Offering a perfect balance of microbiological knowledge and environmental biotechnology principles, it provides a practical understanding of microorganisms and their functions in the environment and in environmental engineering systems. The book also presents a quantitative description of applied microbiological processes and their engineering design. This updated edition includes all new information on construction biotechnology, biogeotechnical engineering, construction biomaterials, environmental engineering of life-support closed ecosystems, defense biotechnologies, and biosafety in civil and environmental engineering. Features: - Classroom tested in universities as a primary course text for civil and environmental engineering students - Includes quizzes, problems, and solutions for better understanding of the material - Covers essential topics such as the diversity and functions of microorganisms in the environment and environmental engineering systems, the structure and functions of microbial ecosystems, applied microbial genetics and molecular biology, environmental bioengineering, and more - Offers combined coverage of microbiology and biotechnology adapted for students in advanced civil and environmental engineering courses

Environmental Microbiology for Engineers provides a practical understanding of microorganisms in civil engineering processes and their functions in environmental engineering systems. It is intended for upper-level undergraduate, graduate, and post-graduate students of civil and environmental engineering. It is also useful for practicing environmental engineers working in the areas of wastewater, solid waste treatment, soil remediation, and ground improvement.

This textbook explores the role that microorganisms play in the engineered protection and enhancement of an environment. It provides useful for engineers theoretical and practical understanding of microorganisms and their functions in civil and environmental engineering.



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