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Microbial Ecology (Hardback)

By Larry L. Barton, Diana E. Northup

John Wiley and Sons Ltd, United States, 2011. Hardback. Condition: New. 1. Auflage. Language: English . Brand New Book. This book covers the ecological activities of microbes in the biosphere with an emphasis on microbial interactions within their environments and communities In thirteen concise and timely chapters, Microbial Ecology presents a broad overview of this rapidly growing field, explaining the basic principles in an easy-to-follow manner. Using an integrative approach, it comprehensively covers traditional issues in ecology as well as cutting-edge content at the intersection of ecology, microbiology, environmental science and engineering, and molecular biology. Examining the microbial characteristics that enable microbes to grow in different environments, the book provides insights into relevant methodologies for characterization of microorganisms in the environment. The authors draw upon their extensive experience in teaching microbiology to address the latest hot-button topics in the field, such as: Ecology of microorganisms in natural and engineered environmentsAdvances in molecular-based understanding of microbial phylogeny and interactionsMicrobially driven biogeochemical processes and interactions among microbial populations and communitiesMicrobial activities in extreme or unusual environmentsEcological studies pertaining to animal, plant, and insect microbiologyMicrobial processes and interactions associated with environmental pollution Designed for use in teaching, Microbial Ecology offers numerous special features...

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