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Life Sciences : Microbiology

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Environmental Microbial Biotechnology

- Enriches readers' understanding of microbial bioremediation technologies
- Written by researchers actively involved in the respective fields
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- Will be of interest to scientists in the fields of environmental ecology, applied microbiology, biochemistry soil biology and biotechnology

This book provides a timely review of strategies for coping with polluted ecosystems by employing bacteria, fungi and algae. It presents the vast variety of microbial technologies currently applied in the bioremediation of a variety of anthropogenic toxic chemicals, mining and industrial wastes and other pollutants. Topics covered include: microbe-mineral interactions, biosensors in environmental monitoring, iron-mineral transformation, microbial biosurfactants, bioconversion of cotton gin waste to bioethanol, anaerobe bioleaching and sulfide oxidation. Further chapters discuss the effects of pollution on microbial diversity, as well as the role of microbes in the bioremediation of abandoned mining areas, industrial and horticultural wastes, wastewater and sites polluted with hydrocarbons, heavy metals, manganese and uranium.

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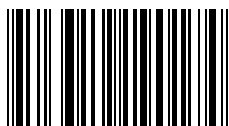
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