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Título: Enviromental Biotechnology

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Precio: Desconocido

Editorial:

Año: 2013

Tema:

Edición: 1ª

Sinopsis

ISBN: 9781588291660

Volume 10: Environmental Biotechnology in the Handbook of Environmental Engineering series presents the theories and principles of various environmental biotechnologies. This outstanding collection of science information is designed as a basic Environmental Biotechnology textbook as well as a reference book for scientists, researchers, educators, and engineers. The book's expert panel of authors provides an introduction at a wide range of topics, including sanitary microbiology, microbial systematics, ecology, microbial metabolism, life support systems, solid-state processes and reactors, value-added biotechnology products, anaerobic processes, membrane bioreactors, space life support systems, biospherics, natural environmental systems, aerobic and anoxic biotechnologies, sequencing batch reactors, and flotation biological systems. Volume 10: Environmental Biotechnology and its sister book ? Volume 11: Environmental Bioengineering ? are indispensable as both basic biotechnology textbooks and comprehensive reference books for all environmentalists. Another gold-standard addition to The Humana Press series, Volume 10: Environmental Biotechnology gives readers a cutting-edge illustration of the theories and principles of biotechnologies, systems, processes, and methodologies.

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Emphasis on detailed descriptions, introductions, theories, principles, classifications, and mechanisms of microbiology, ecology, life support systems, and biological processes.

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Environmental biotechnology, microbiology, microbial systematics, ecology, metabolism, life support systems, solid-state processes and reactors, value-added biotechnology products, anaerobic suspended biological processes, membrane bioreactors, closed ecological systems,

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space life support systems, biospherics, natural environmental biotechnologies, aerobic processes, anoxic processes, suspended-growth processed, attached-growth processes, and flotation biological systems.