



# Textbook of Environmental Biotechnology

By Pradipta Kumar Mohapatra

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**Textbook of Environmental Biotechnology** By Pradipta Kumar Mohapatra

Environmental Biotechnology was conceived after scanning the available literature in the area, which indicated that references in the subject are scanty and highly sporadic. This book provides comprehensive information on the different aspects of environmental biotechnology and also discusses the processes and new technologies dealing with pollutants, degradation and resource recovery. It has been designed to serve as a good study material for the students and researchers in the field. At the end of the book there is an exhaustive reference section to guide the readers for additional reading. The book discusses:

- New approaches to wastewater treatment
- Use of endemic or exotic biota as a nutrient filter to purify nutrient-loaded wastewater and nutrient-enriched eutrophic surface water
- Production of usable primary and secondary biomass using waste, wastewater and wasteland
- Efficient biomass management techniques
- Several emerging areas like microalgal cultivation techniques using wastewater
- Production of value added products from algae
- Statistical approach to analyze the toxic effects of xenobiotics using biological test batteries and biopesticides
- Integrated pest management
- Advanced techniques to study environmental contamination
- Biological experimental procedures to determine the level of contamination

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