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Environmental Biotechnology: A Biosystems Approach 2 exposure scenarios, such as those involving inert and persistent chemicals with relatively long

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Environmental biotechnology : theory and application / by Gareth M. Evans, Judith C. Furlong. p. cm. Includes bibliographical references and index.

ISBN 0-470-84372-1 (cloth : alk. paper) — ISBN 0-470-84373-X (pbk. : alk. paper) 1. Bioremediation. I. Furlong, Judith C. II. Title. TD192.5.E97 2003 628.5 — dc21 2002027448

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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

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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

As we enter a new millennium, the environmental issues faced by both developing and industrialised nations are as pressing as ever. Environmental biotechnologies are increasingly being viewed as a major weapon against environmental damage. Cleaner production is part of this strategy and yet there is still widespread ignorance about this emerging technology. Environmental Biotechnology and Cleaner Bioprocesses provides this information at various levels, from introductory to advanced. The first section covers the development of cleaner bioprocesses within the framework of sustainable development. Aspects of environmental policy for small and medium businesses are then discussed using case studies to illustrate principles. The second section covers the recycling and treatment of organic waste, including the use of aquatic plants and microalgae for wastewater treatment and recovery of nutrients. Section three covers bioremediation technologies and finally, section four is dedicated to emerging cleaner bioprocesses and environmentally sound products. All chapters have been written and edited by leading authorities in the field. Students and professionals interested in environmental biotechnology and cleaner production will find the background information and detail they require in this one convenient source.

The application of biologically-engineered solutions to environmental problems has become far more readily acceptable and widely understood. However there remains some uncertainty amongst practitioners regarding how and where the microscopic, functional level fits into the macroscopic, practical applications. It is precisely this gap which the book sets out to fill. Dividing the topic into logical strands covering pollution, waste and manufacturing, the book examines the potential for biotechnological interventions and current industrial practice, with the underpinning microbial techniques and methods described, in context, against this background. Each chapter is supported by located case studies from a range of industries and countries to provide readers with an overview of the range of applications for biotechnology. Essential reading for undergraduates and Masters students taking modules in Biotechnology or Pollution Control as part of Environmental Science, Environmental Management or Environmental Biology programmes. It is also suitable for professionals involved with water, waste management and pollution control.

This book complies latest advancement in the field of environmental biotechnology. It focuses on topics that comprises industrial, environment and agricultural related issues to microbiological studies and exhibits correlation between biological world and dependence of humans on it. It is designed into three sections covering the role of environmental biotechnology in industry, environmental remediation, and agriculture. Ranging from micro-scale studies to macro, it covers up a huge domain of environmental biotechnology. Overall the book portrays the importance of modern biotechnology technologies in solving the problems in modern day life. The book is a ready reference for practicing students, researchers of biotechnology, environmental engineering, chemical engineering and other allied fields likewise.

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The classic first edition, now back in print! Environmental Biotechnology: Principles and Applications is the essential tool for understanding and designing microbiological processes used for environmental protection and improvement. The book lays a foundation in microbiology and engineering principles and provides comprehensive coverage of all the major environmental applications, from traditional ones like activated sludge and anaerobic digestion to emerging applications like detoxification of hazardous chemical and biofiltration of drinking water. An abundance of worked examples that show in a step-by-step way how the tools are used in analysis and design enrich the discussion. Environmental Biotechnology is the authoritative source for learning how processes in environmental biotechnology work and how to create reliable processes to meet contemporary and emerging needs. Students, practitioners, and researchers will find this book invaluable. Key features of this first edition include: Consistent backup of the fundamental principles of microbiological processes by their practical applications. Discussion of the traditional applications (e.g., activated sludge and anaerobic digestion) and the emerging applications (e.g., bioremediation and drinking water treatment). Numerous examples illustrating how the design and analysis tools are applied correctly. Each chapter consists of many problems, ranging in scope, that can be assigned as homework, used as supplemental examples in class, or used as study tools. Abundant use of figures to illustrate concepts.

This book provides information essential to students taking courses in biotechnology as part of environmental sciences, environmental management, or environmental biology programs. It is also suitable for those studying water, waste management, and pollution abatement. Topics include biodiversity, renewable energy, bioremediation technology, recombinant DNA technology, genetic engineering, solid waste management, composting, vermicomposting, biofertilizer, chemical pesticides, biological control of pests, and genetically modified organisms. The book also discusses bioethics and risk assessment, intellectual property rights, environmental cleanup technologies, and environmental nanotechnology.

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