

Textbook Of Environmental Biotechnology P K Mohapatra

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Sayler Chandrawati Jee Murray Moo-Young Christopher F. Forster P.R. Yadav Perry L.
McCarty Vinod Soni Neetu Sharma

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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

the growing awareness of environmental problems provided the stimulus for this 4th international symposium on biotechnology interbiotech 90 to address many aspects of the relationship between biotechnology and the environment the papers are mainly devoted to the contribution of biotechnology in solving environmental problems including biological waste water treatment utilization of municipal sewage sludge detoxification of polluted soil and complex utilization of lignocellulosic wastes there is examination of possible dangers in such cases as the release of r dna organisms into the environment the relationship of biotechnology and energy e g biogas landfill gas fuel photosynthetic systems for fuel production is also discussed

an introduction to environmental biotechnology provides an introduction to the subject of environmental biotechnology environmental biotechnology refers to the use of micro organisms and other living systems to solve current environmental problems such as the detoxification of pollutants and clean up of oil tanker spills additionally it refers to the biotechnology of the agricultural environment as well as the use of biopesticides and the application of microorganisms to the mining metal recovery and paper industries this is the only comprehensive introductory account of this subject matter beginning with an introduction to microbial growth an introduction to environmental biotechnology aims to provide the non specialist with a complete overview of environmental biotechnology it is presented in an easy to read style with illustrations and includes frequent references to the use of higher plants as well as micro organisms in environmental biotechnology an introduction to environmental biotechnology is geared toward a non specialist audience including engineers and environmental chemists and environmental scientists who have limited knowledge of microbiology and biotechnology

with focus on the practical use of modern biotechnology for environmental sustainability this book provides a thoughtful overview of molecular aspects of environmental studies to create a new awareness of fundamental biological processes and sustainable ecological concerns it covers the latest research by prominent scientists in modern biology and delineates recent and prospective applications in the sub areas of environmental

biotechnology with special focus on the biodegradation of toxic pollutants bioremediation of contaminated environments and bioconversion of organic wastes toward a green economy and sustainable future

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

environmental biotechnology theory and applications 2nd edition is designed to draw together the microscopic functional level and the macroscopic practical applications of biotechnology and to explain how the two relate within an environmental context it presents the practical biological approaches currently employed to address environmental problems and provides the reader with a working knowledge of the science that underpins them biotechnology has now become a realistic alternative to many established approaches for manufacturing land remediation pollution control and waste management and is therefore an essential aspect of environmental studies fully updated to reflect new developments in the field and with numerous new case studies throughout this edition will be 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 quote from the first edition there is no doubt that this book will be one of inspiration for all professionals in the field it is a very good framework for understanding the complex nature of processes and technology and as such it will be useful for researchers practitioners and other parties who need a working knowledge of this fascinating subject professor bjorn jensen chairman of the european federation of biotechnology environmental biotechnology section and research and

innovation director dhi water and environment

a deeper insight into the complex processes involved in this field covering the biological chemical and engineering fundamentals needed to further develop effective methodologies the book devotes detailed chapters to each of the four main areas of environmental biotechnology wastewater treatment soil treatment solid waste treatment and waste gas treatment dealing with both the microbiological and process engineering aspects the result is the combined knowledge contained in the extremely successful volumes 11a through 11c of the biotechnology series in a handy and compact form

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 recomb

the iwa conference on environmental biotechnology advancement in water and wastewater application in the tropics held in kuala lumpur malaysia on 9 10 december 2003 was a peer reviewed conference it was specially organized for malaysia and the asia pacific region in collaboration between universiti teknologi malaysia utm the international water association iwa the malaysia water association and the malaysian biotechnology directorate papers presented in the conference covered current perspectives on the advancement of water and wastewater applications using environmental biotechnology as well as methodologies techniques modelling case studies directions and other specific issues the emphasis was also on its feasibility in developing countries the conference also focussed on the biodegradation and bioconversion health related microorganisms microbial community structure and analysis sludge reduction and material recovery drinking water treatment and safety nutrient removal and recovery sensors modelling and control molecular techniques integrated treatment concepts and biological nutrient removal for developing countries particularly in the tropical region stock for this wems edition was damaged in transit to the iwa publishing warehouse a discount has therefore been applied to this title

environmental biotechnology has all the aspects of environmental biotechnology role of microbes in making clean environment it has the detailed information regarding the biodegradation of xenobiotic compounds and it will also have the information about the different biosensors and their significance it will also cover the various aspects of the biopesticides and biofertilizers it has the various physical chemical and biological methods of solid waste treatment it also has the aerobic and anaerobic methods of the waste

water treatment it also provide the good description of the global environmental problems like green house effect acid rain and ozone depletion it is a good book for the students of ug and pg covering all the aspects of environmental biotechnology

environmental biotechnology a biosystems approach introduces a systems approach to environmental biotechnology and its applications to a range of environmental problems a systems approach requires a basic understanding of four disciplines environmental engineering systems biology environmental microbiology and ecology these disciplines are discussed in the context of their application to achieve specific environmental outcomes and to avoid problems in such applications the book begins with a discussion of the background and historical context of contemporary issues in biotechnology it then explains the scientific principles of environmental biotechnologies environmental biochemodynamic processes environmental risk assessment and the reduction and management of biotechnological risks it describes ways to address environmental problems caused or exacerbated by biotechnologies it also emphasizes need for professionalism in environmental biotechnological enterprises this book was designed to serve as a primary text for two full semesters of undergraduate study e g introduction to environmental biotechnology or advanced environmental biotechnology it will also be a resource text for a graduate level seminar in environmental biotechnology e g environmental implications of biotechnology provides a systems approach to biotechnologies which includes the physical biological and chemical processes in context case studies include cutting edge technologies such as nanobiotechnologies and green engineering addresses both the applications and implications of biotechnologies by following the life cycle of a variety of established and developing biotechnologies

the use of biotechnical processes in control of environmental pollution and in hazardous waste treatment is viewed as an advantageous alternative or adduct to physical chemical treatment technologies yet the development and implementation of both conventional and advanced biotechnologies in predictable and efficacious field applications suffer from numerous technical regulatory and societal uncertainties with the application of modern molecular biology and genetic engineering there is clear potential for biotechnical developments that will lead to breakthroughs in controlled and optimized hazardous waste treatment for in situ and unit process use there is however great concern that the development of these technologies may be needlessly hindered in their applications and that the fundamental research base may not be able to sustain continued technology development some of these issues have been discussed in a fragmented fashion within the research and development community a basic research agenda has been established to promote a sustainable cross disciplinary technology base this agenda includes

developing new and improved strains for biodegradation improving bioanalytical methods to measure strain and biodegradation performance and providing an integrated environmental and reactor systems analysis approach for process control and optimization

biotechnology offers a natural way of addressing environmental problems ranging from identification of biohazards to bioremediation techniques for industrial agricultural and municipal effluents and residues biotechnology is also a crucial element in the paradigm of sustainable development this collection of 66 papers by authors from 20 countries spanning 4 continents addresses many of these issues the material presented will interest scientists engineers and others in industry government and academia it incorporates both introductory and advanced aspects of the subject matter which includes water air and soil treatment biosensor and biomonitoring technology genetic engineering of microorganisms and policy issues in applying biotechnology to environmental problems the papers present a variety of aspects ranging from current state of the art research to examples of applications of these technologies

contents introduction microbes and environment water pollution biotechnological detection of pollution prevention and control of water pollution waste water treatment sewage treatment biotreatment of wastes air pollution marine pollution controlling marine pollution pollution abatement industrial pollution treatment of industrial effluents advanced waste treatment methods biotechnology of biodegradation biohydrometallurgy bio products for environmental health environmental management

publisher's note products purchased from third party sellers are not guaranteed by the publisher for quality authenticity or access to any online entitlements included with the product 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

the book includes current and emerging concepts in the areas of environmental biotechnology such as pollution sources control and measurement solid waste management bioremediation biofuels biosensors bioleaching conservation biotechnology and more the book also includes recent innovations made in this field and incorporates case studies to help in understanding the concepts this book applies principles from multidisciplinary sciences of environmental engineering metabolic engineering rDNA technology and omics to study the role of microbes and plants in tackling environmental issues it also includes content related to risk assessment and environmental management systems each chapter provides problems and solutions of different topics with diagrammatic illustrations and tables for students researchers and other professionals in environmental biotechnology explores cutting edge technologies including nanotechnology based bioremediation value added products from waste and emerging techniques related to environmental risk assessment and monitoring reviews the current methods being applied in the environment field for pollution control waste management biodegradation of organic and inorganic pollutants and so on provides in depth knowledge of the latest advancements in the field of environmental biotechnology such as bioleaching biomining and advances in biotechnology based conservation of biodiversity introduces undergraduate and post graduate students to basic concepts of environmental biotechnology and allied fields discusses different products such as biofuels biopolymers and biosensors that are being produced using biotechnological methods thus contributing towards the goal of sustainable development dr neetu sharma is assistant professor in the department of biotechnology ggdsd college chandigarh india the main thrust of her research centers on biotechnology bioremediation and nanotechnology abhinashi singh sodhi is assistant professor in the department of biotechnology ggdsd college chandigarh india his current research focuses on waste reduction valorization and bioproduct formation dr navneet batra is associate professor and head department of biotechnology ggdsd college chandigarh india he has extensive academic and research experience of over 20 years with specialization in biotechnology and biochemical engineering

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