Textbook Of Environmental Biotechnology P K Mohapatra

Environmental BiotechnologyINTRODUCTION TO ENVIRONMENTAL BIOTECHNOLOGY, THIRD EDITIONBiosensors and Environmental BiotechnologyEnvironmental Microbiology and BiotechnologyEnvironmental BiotechnologyApplications of Environmental Biotechnology for Global SustainabilityBiotechnology for Environmental Protection in the Pulp and Paper IndustryEnvironmental BiotechnologyGlobal Environmental BiotechnologyEnvironment BiotechnologyEnvironmental BiotechnologyEmerging Trends in Environmental BiotechnologyAdvanced and Innovative Approaches of Environmental Biotechnology in Industrial Wastewater TreatmentEnvironmental BiotechnologyAn Introduction to Environmental BiotechnologyEnvironmental BiotechnologyBasic Concepts in Environmental BiotechnologyEnvironmental Biotechnology (66-601457)BiofilmsTextbook of Environmental Biotechnology Gareth M. Evans CHATTERJI, A. K. Cornelis P. Hollenberg D. P. Singh Daniel A. Vallero Dr. Korla Swapnavahini, Dr. P. Mahalakshmi, Dr. S. Carmel Punitha, Dr. D. Jayarajan, and Dr. Sunanda Shashikant Aswale P. Bajpai Gareth G. Evans D.L. Wise S.k.agarwal Geethabali Sukanta Mondal Maulin P. Shah T. Srinivas Milton Wainwright Murray Moo-Young Neetu Sharma P. S. Murthy P. K. Mohapatra

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the application of biologically engineered solutions toenvironmental problems has become far more readily acceptable andwidely understood however there remains some uncertainty amongstpractitioners regarding how and where the microscopic functionallevel fits into the macroscopic practical applications it isprecisely 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 forbiotechnological 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 rangeof industries and countries to provide readers with an overview ofthe range of applications for biotechnology essential reading for undergraduates and masters studentstaking modules in biotechnology or pollution control as part ofenvironmental science environmental management or environmentalbiology programmes it is also suitable for professionals involvedwith water waste management and pollution control

intended as a text for the students of m sc environmental science b tech and m tech environmental engineering b tech biotechnology and b sc biotechnology this thoroughly revised third edition incorporates the latest advances and trends in environmental biotechnology the text focuses on the utilization of modern biological and biochemical tools such as genetically modified organisms gmos cell biological methods biosensors bioplastics and bio fuels it explains how to conserve the rapidly dwindling bio resources and judiciously exploit the bio sphere and also projects the future possibilities of this technology in the 21st century this book can also serve as a useful guide to research scholars and practising professionals the third edition includes a new chapter chapter 10 containing some special emerging topics viz dna sensing polymer biodegradation and oil spill bio remediation updated chapters 5 6 9 11 with latest information and developments in environmental biotechnology key features covers all the aspects of environmental biotechnology from ecosystem to genetic and molecular levels supported by authentic data and information delineates strategies and protocols for the utilization of microbes in solving problems of environment including the use of the well known super bug pseudomonas putida discusses modern biotechnological tools in environmental monitoring and analysis uncovers the production processes and advantages of bio fuels

this book provides general information in the area of environmental science microbiology

and biotechnology keeping in view the recent advances in these disciplines this book aims to focus on the application of microbiology and biotechnology in tackling the environmental issues viz role of microbes in waste management bioremediation health hygiene biological control and plant productivity biofertilizers vermiculture and biocomposting this book offers an exhaustive and authentic account of integral relationship of microbiology biotechnology with environmental science students from all these disciplines would find this book as an authentic source of information and would be immensely benefited this book includes the matter required by both under graduate and post graduate students including researchers who are genuinely interested in knowing the applied aspect of microbiology biotechnology particularly with reference to environmental issues since every chapter starts with a basic concept of problems and issues it easily enables the readers to comprehend the subject in a lucid manner

environmental biotechnology a biosystems approach second edition presents valuable information on how biotechnology has acted as a vital buffer among people pollution and the environment it answers the most important questions on the topic including how and why a knowledge and understanding of the physical chemical and biological principles of the environment must be achieved in order to develop biotechnology applications most texts address either the applications or the implications of biotechnology this book addresses both the applications include biological treatment and other environmental engineering processes the risks posed by biotechnologies are evaluated from both evidence based and precautionary perspectives using a systems biology approach the book provides a context for researchers and practitioners in environmental science that complements guidebooks on the necessary specifications and criteria for a wide range of environmental designs and applications users will find crucial information on the topics scientific researchers must evaluate in order to develop further technologies provides a systems approach to biotechnologies which includes the physical biological and chemical processes in context presents relevant case studies on cutting edge technologies such as nanobiotechnologies and green engineering addresses both the applications and implications of biotechnologies by following the lifecycle of a variety of established and developing biotechnologies includes crucial information on the topics scientific researchers must evaluate in order to develop further technologies

editors dr korla swapnavahini dr p mahalakshmi dr s carmel punitha dr d jayarajan and dr sunanda shashikant aswale all rights reserved no part of this publication may be reproduced or transmitted in any form or by any means without permission any person who does any unauthorized act in relation to this publication may be liable for criminal prosecution and civil claims for damages first published 2023 isbn 978 625 8284 30 0 turkey yayımcı hukuki

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pulp and paper production has increased globally and will continue to increase in the near future approximately 155 million tons of wood pulp is produced worldwide and about 260 million is projected for the year 2010 to be able to cope with increasing demand an increase in productivity and improved environmental performance is needed as the industry is also under constant pressure to reduce and modify environmental emissions to air and water the authors give updated information on various biotechnological processes useful in the pulp and paper industry which could help in reducing the environmental pollution problem in addition to other benefits various chapters deal with the latest developments in such areas as raw material preparation pulping bleaching water management waste treatment and utilization the book also covers the environmental regulations in various parts of the world as well as the role of biotechnology in reducing environmental problems

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

environmental biotechnology is an emerging field of scientific and technological

investigations that is truly global people around the world are now joined together by a common technical bond furthermore popular recognition is high for the environmental problems being faced and solved by biotechnology methods with a feeling of winning but recognizing there is much work to be done workers with in depth experience in solving one problem in environmental biotechnology meet to learn from the background of other workers how they too are addressing and solving environmental problems this text includes papers from the third biennial meeting of the international society for environmental biotechnology the iseb held in boston massachusetts on the campus of northeastern university technical oral presentations of state of the art research were integrated with tutorials and workshops by practising technologists in the broad field of environmental biotechnology this meeting was in every respect truly global for example presentations were heard from technical workers in southeast asia russia china europe north africa india and the united states by having these selected presenters all participants benefited from this interactive symposium various persons of political stature were the keynote banquet and luncheon speakers these social events further promoted informal exchange of ideas discussions of technical problems and exploration of new applications this international symposium on environmental biotechnology was held on the campus of northeastern university but all boston area universities were included and participated as conference co chairs this symposium was considered a success because workers with experience in one area of environmental biotechnology learned from the wealth of established backgrounds of those in other areas of environmental biotechnology to formally disseminate conference results all technical presentations were reviewed for formal publication

collection of papers presented at three workshops hosted by the centre for clean environment technology bangalore university during 1998 2001 and some contributed atricles

the environment is an all encompassing component of the ecosystem of blue planet the earth made up of the hydrosphere atmosphere and lithosphere these three spheres have biotic and abiotic components which exhibit ecological homeostasis that provides the most appropriate survival chances for the members of biotic component and geochemical balance with abiotic components this ecosystem is subjected to relatively harsh conditions mostly created by the disastrous activities due to natural calamities and intentional and or accidental anthropogenic activities biotechnology has become a potential tool to dissipate such environmental impacts because of the advancement it has undergone recently emerging trends in environmental biotechnology is an outstanding collection of current research that integrates basic and advanced concepts of biotechnology such as genomics proteomics bioinformatics sequencing

and imaging processes to improvise and protect the environment this book is particularly attractive for scientists researchers students educators and professionals in environmental science agriculture veterinary and biotechnology science the book will enable them to solve the problems about sustainable development with the help of current innovative biotechnologies such as recombinant dna technology and genetic engineering which have tremendous potential for impacting global food security environmental health human and animal health and overall livelihood of mankind features presents easy to read chapters information is presented in a very accessible and logical format identifies and explores biotechnological approaches for environmental protection encompasses biodegradation of hazardous contaminants biotechnology in waste management nanotechnology and issues in environmental biotechnology research

this book discusses new and innovative trends and techniques in the removal of toxic and refractory pollutants by means of various microbial biotechnology processes from wastewater both on the laboratory and industrial scales the book also highlights the main factors contributing to the removal of toxic pollutants as well as recycling environmental impact and wastewater policies after heavy metal removal in addition it assesses the potential application of several existing bioremediation techniques and introduces new cutting edge emerging technologies this book significantly contributes to the wastewater treatment plant industry so that the treatment systems can serve better and more resiliently for the purpose this book is designed for engineers scientists and other professionals who are seeking introductory knowledge of the principles of environmental bioremediation technology and for students who are interested in the environmental microbiology and bioremediation fields

about the book this book is meant for undergraduate students of biotechnology chemical and civil engineering courses and also for postgraduate students of environmental studies it encompasses topics related to pollution abatement and treatment of wastewater and solid waste management emphasizing on biological treatment methods design aspects of the biological treatment units are the distinctive features of this book principles of bioremediation are briefly covered contents water and wastewater treatment of wastewater wastewater biology secondary treatment biological treat

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

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

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

discusses detoxification of contaminated water microbial degradation of pollutants biological wastewater treatment and many other similar concepts microbial ecology and environmental biotechnology go hand in hand wherein underlying processes in microbial communities are the basis for managing events or methods in environmental biotechnology several new technologies have been developed like sequencing batch reactors for growth hyperbaric chambers for isolation of exclusive micro organisms etc which are discussed in this book

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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