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ENVIRONMENTAL BIOTECHNOLOGY

THEORY AND APPLICATIONS



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JERSEY CITY, USA

Environmental Biotechnology Theory And Application

Yuan Kun Lee



Environmental Biotechnology Theory And Application:

Environmental Biotechnology Gareth G. Evans, Judy Furlong, 2011-04-08 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 Gareth M. Evans, Judith C. Furlong, 2003-06-13 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

Environmental Biotechnology Gareth M. Evans, 2018

Environmental Biotechnology Lawrence K. Wang, Volodymyr Ivanov, Joo-Hwa Tay, Yung-Tse Hung, 2010-04-05 The past 30 years have seen the emergence of a growing desire worldwide that positive actions be taken to restore and protect the environment from the degrading effects of all forms of pollution air water soil and noise Since pollution is a direct or indirect consequence of waste production the seemingly idealistic demand for zero discharge can be construed as an unrealistic demand for zero waste However as long as waste continues to exist we can only attempt to abate the subsequent pollution by converting it to a less noxious form Three

major questions usually arise when a particular type of pollution has been identified 1 How serious is the pollution 2 Is the technology to abate it available and 3 Do the costs of abatement justify the degree of abatement achieved This book is one of the volumes of the Handbook of Environmental Engineering series The principal intention of this series is to help readers formulate answers to the last two questions above The traditional approach of applying tried and true solutions to specific pollution problems has been a major contributing factor to the success of environmental engineering and has accounted in large measure for the establishment of a methodology of pollution control However the realization of the ever increasing complexity and interrelated nature of current environmental problems renders it imperative that intelligent planning of pollution abatement systems be undertaken Environmental Biotechnology Emma Layer, 2017-05-23 The objective of this book is to give a general view of the different areas of environmental biotechnology and its applications A field of study that is used for harnessing biological process for industrial purposes is known as environmental biotechnology This book covers in detail some existent theories and innovative concepts revolving around this field of study From theories to research to practical applications case studies related to all contemporary topics of relevance to this field have been included in this text It is appropriate for students seeking detailed information in this area as well as for experts Coherent flow of topics student friendly language and extensive use of examples make this book an invaluable source of knowledge **Environmental Biotechnology** M. H. Fulekar, 2010-07-19 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 **Advances in Environmental Biotechnology** Raman Kumar, Anil Kumar Sharma, Sarabjeet Singh Ahluwalia, 2017-04-19 The book aims to provide a comprehensive view of advanced environmental approaches for wastewater treatment heavy metal removal pesticide degradation dye removal waste management microbial transformation of environmental contaminants etc With advancements in the area of Environmental Biotechnology researchers are looking for the new opportunities to improve quality standards and environment Recent technologies have given impetus to the possibility of using renewable raw materials as a potential source of energy Cost intensive and eco friendly technology for producing high quality products and efficient ways to recycle waste to minimize environmental pollution is the need of hour The use of bioremediation technologies through microbial communities is another viable option to remediate environmental pollutants such as heavy metals pesticides and dyes etc Since physico chemical technologies employed in the past have many potential drawbacks including higher cost and lower sustainability So there is need of efficient biotechnological alternatives to overcome increasing environmental pollution Hence there is a need for environmental friendly technologies that can reduce the pollutants causing adverse hazards on humans and surrounding environment Concepts and Applications in Environmental Geochemistry Dibyendu Sarkar, Rupali Datta, Robyn

Hannigan,2011-09-14 This volume is for environmental researchers and government policy makers who are required to monitor environmental quality for their environmental investigators and remediation plans It uses concepts and applications to aid in the exchange of scientific information across all the environmental science disciplines ranging from geochemistry to hydrogeology and ecology to biotechnology Focusing on issues such as metals organics and nutrient contamination of water and soils and interactions between soil water plants chemicals the book synthesizes the latest findings in this rapidly developing multi disciplinary field Cutting edge environmental analytical methods are also presented making this a must have for professionals tasked with monitoring environmental quality These concepts and applications help in decision making and problem solving in a single resource Integrative approach promotes the exchange of scientific information among different disciplines New concepts and case studies make the text unique among existing resources Tremendous practical value in environmental quality and remediation with an emphasis on human health and ecological risk assessment

Bioprocess Engineering for a Green Environment V. Sivasubramanian,2018-05-04 Bioprocess Engineering for a Green Environment examines numerous bioprocesses that are crucial to our day to day life specifically the major issues surrounding the production of energy relating to biofuels and waste management The nuance of this discussion is reflected by the text s chapter breakdown providing the reader with a fulsome investigation of the energy sector the importance of third generation fuels and the application of micro and macroalgae for the production of biofuels The book also provides a detailed exploration of biocatalysts and their application to the food industry bioplastics production conversion of agrowaste into polysaccharides as well as the importance of biotechnology in bio processing Numerous industries discharge massive amounts of effluents into our rivers seas and air systems As such two chapters are dedicated to the treatment of various pollutants through biological operation with hopes of achieving a cleaner greener environment This book represents the most comprehensive study of bioprocessing and its various applications to the environment available on the market today It was furthermore written with various researchers in mind ranging from undergraduate and graduate students looking to enhance their knowledge of the topics presented to scholars and engineers interested in the bioprocessing field as well as members of industry and policy makers Provides a comprehensive overview of bioprocesses that apply to day to day living Is learner centered providing detailed diagrams for easy understanding Explores the importance of biocatalysts and their applications to the food industry as well as bioplastics production Examines the unique capabilities of bioprocess engineering and its ability to treat various pollutants *Waste to Energy: Prospects and Applications* Brijendra Kumar Kashyap,Manoj Kumar Solanki,Dev Vrat Kamboj,Akhilesh Kumar Pandey,2021-02-16 This book addresses waste generation problems from various sectors including industries agriculture and household It focuses on how modern biotechnological approaches could help manage waste in an eco friendly manner and generate precious bioenergy It discusses the inadequate waste management systems damaging the environment and its adverse impacts on climate change related problems This book covers all the

essential information regarding various types of waste and their management It is a comprehensive compilation for understanding the efficient generation of bioenergy It is a relevant reading material resource for anyone who wishes to study waste management as Chemist Biologist Biotechnologist Industrialist Ecologist Microbiologist Economist and all disciplines related to the environment **Fundamentals of Environmental Biology** Meetu Gupta,2018-01-16

Fundamentals of Environmental Biology has been conceived to bring different aspects of environmental biology under one head The purpose of this book is to fill the gap between basic books of ecology or environmental science and advanced environmental biotechnology in an appropriate manner Divided in two parts the book contains fourteen chapters First part deals with the topics related with ecology and environmental sciences and second part deals with environmental biotechnology aspects It will help the students of botany zoology biotechnology and environmental sciences or engineering as environmental biology is a multidisciplinary subject and involves various issues like ecological issues global environmental problems socio economic scenario along with modern fields such as molecular ecology etc Although the book is primarily designed for undergraduate and postgraduate students it also provides information in a precise way to the teachers researchers and also to the people working in NGOs related to environmental aspects or problems *Environmental Microbiology: Advanced Research and Multidisciplinary Applications* Arun Karnwal,Abdel Rahman Mohammad Said Al-Tawaha,2022-09-02

Environmental Microbiology Advanced Research and Multidisciplinary Applications focus on the current research on microorganisms in the environment Contributions in the volume cover several aspects of applied microbial research basic research on microbial ecology and molecular genetics The reader will find a collection of topics with theoretical and practical value allowing them to connect environmental microbiology to a variety of subjects in life sciences ecology and environmental science topics Advanced topics including biogeochemical cycling microbial biosensors bioremediation application of microbial biofilms in bioremediation application of microbial surfactants microbes for mining and metallurgical operations valorization of waste and biodegradation of aromatic waste microbial communication nutrient cycling and biotransformation are also covered The content is designed for advanced undergraduate students graduate students and environmental professionals with a comprehensive and up to date discussion of environmental microbiology as a discipline that has greatly expanded in scope and interest over the past several decades *Industrial Microbiology and Biotechnology* Pradeep Verma,2024-06-25 This book provides an in depth exploration of microbial biodiversity and its crucial role in diverse biotechnological and industrial sectors It covers topics such as the integration of molecular approaches for identifying industrially significant strains omics roles in the production of bioproducts and modern genetic engineering techniques It discusses biostatistical investigations and the impact of microbial biotechnology on healthcare and emerging contaminants It highlights the significance of food microbiology fermentation and the latest technologies in improving human health Additionally the book delves into emerging trends in oligosaccharide production biobased approaches for a sustainable future and the importance of microbial

biomolecules and secondary metabolites It also explores the identification and production of industrially significant biocatalysts enzymes the valorization of agro industrial waste using microorganisms for green energy generation and the development of bioreactor systems for the biobased economy The book covers advancements in solid gaseous biofuels production impact assessment of synthetic microfiber pollution sustainable management strategies for waste management and the impact of emerging technologies in medical microbiology The book also discusses the development of healthcare products using nano biotechnological advancements the impact of novel remediation technology and the utilization of microbial products in biomaterial development It further explores microbial regulatory systems gene expression studies and the significance of mutations in microbial technology This book serves as a great reference for researchers environmentalists microbiologists biotechnologists and graduate post graduate students and doctoral students working on microbial biotechnology and industrial microbiology *Microbial Biotechnology: Principles And Applications (2nd Edition)* Yuan Kun Lee,2006-08-24 In the second edition of this bestselling textbook new materials have been added including a new chapter on real time polymerase chain reaction RTPCR and a chapter on fungal solid state cultivation There already exist a number of excellent general textbooks on microbiology and biotechnology that deal with the basic principles of microbial biotechnology To complement them this book focuses on the various applications of microbial biotechnological principles A teaching based format is adopted whereby working problems as well as answers to frequently asked questions supplement the main text The book also includes real life examples of how the application of microbial biotechnological principles has achieved breakthroughs in both research and industrial production Although written for polytechnic students and undergraduates the book contains sufficient information to be used as a reference for postgraduate students and lecturers It may also serve as a resource book for corporate planners managers and applied research personnel **Zeolites and Their Applications**

Mohamed Nageeb Rashed,P.N. Palanisamy,2018-06-27 Zeolites are hydrated aluminosilicate minerals of the family of microporous solids According to the US Geological Survey there are about 40 naturally occurring zeolites forming in sedimentary and volcanic rocks The most commonly mined forms include clinoptilolite chabazite and mordenite There are over 200 synthetic zeolites For their abundance natural and synthetic zeolites are widely used in the industry agriculture water treatment wastewater treatment and as dietary supplements to treat diarrhea autism cancer and other This book *Zeolites and Their Applications* deals with several aspects of zeolite morphology synthesis and applications The book is divided into three sections and structured into nine chapters The first section includes the introductory chapter the second section explains mineralogy morphology and synthesis of zeolites and the third section focuses on the different applications of both natural and synthetic zeolites So in this book the readers will obtain updated information on mineralogy morphology synthesis and application of zeolites Scientists from different scientific fields reported in this book their findings

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INTERNATIONAL JOURNAL OF ADVANCE RESEARCH IN BIOTECHNOLOGY AND NANOBIOTECHNOLOGY,2022-07-01
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Biotechnology in Healthcare, Volume 2 Debmalya Barh,2022-08-14 Biotechnology in Healthcare presents up to date knowledge on the emerging field of biotechnology as applied to the healthcare industry Biotechnology has revolutionized healthcare in the last two decades by developing and introducing novel diagnostics therapeutics and preventive measures whether it is noncommunicable or communicable disease primary or secondary care or public health it has shown its immense potential to provide a solution to the healthcare providers physicians and allied health care professionals The second volume Applications and Initiatives contains 19 chapters focused on the applications of biotechnology related to public healthcare hospital management oncology neurodegenerative and infectious diseases regenerative medicine IVF clinical trials precision food FMGCs PPCPs pharmaceuticals and smart technologies to monitor pandemic Further this volume also presents government initiatives and entrepreneurship challenges in healthcare biotechnology sector This is a valuable resource for students biotechnologists bioinformaticians clinicians and members of biomedical and healthcare fields who need to understand more about the promising developments of the emerging field of biotechnology in healthcare Describes various applications of novel biotechnology approaches in healthcare Presents applications of biotechnology in primary and secondary healthcare and in public health Discusses government initiatives challenges and opportunities and entrepreneurship development in the area of healthcare biotechnology

An analysis of current and future electricity production from biogas in Germany Balussou, David,2023-05-12 In this work a process simulation model identifies the most profitable German biogas plant types and sizes Small manure and large scale biowaste plants are currently the most economically attractive installations whereas the valorization of energy crops turns out to be unprofitable Future developments are assessed with the help of a regional optimization model under constraints Capacity expansion concerns small scale manure and biowaste installations rather than plants based on energy crops

Handbook of Metal-Microbe Interactions and Bioremediation Surajit Das,Hirak Ranjan Dash,2017-04-07 Around the World metal pollution is a major problem Conventional practices of toxic metal removal can be ineffective and or expensive delaying and exacerbating the crisis Those communities dealing with contamination must be aware of the fundamentals advances of microbe mediated metal removal practices because these methods can be easily used and require less remedial intervention This book describes innovations and efficient applications for metal bioremediation for environments polluted by metal contaminates

Environmental Biotechnology ESEB 2004 W. Verstraete,2004-07-01 This book presents recent developments in the field of environmental biotechnology Three major forces are currently driving this discipline the exploration of microbial diversity by genetic and genomic tools the ongoing progress in the modelling of various transient phenomena and environmental biotechnology This book provides a state of art overview of developments in the field of environmental

biotechnology concerning exploration implementation modelling economic development and safety It comprises selected peer reviewed papers that were presented at the European Symposium on Environmental Biotechnology ESEB 2004 held in Oostende Belgium April 2004

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