

Environmental Studies By Deswal

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Environmental Science | AICTE Prescribed Textbook - English - Subrat Roy 2021-11-01
“Environmental Science” is an audit course for the first year Diploma programme in Engineering & Technology. Syllabus of this book is strictly aligned as per model curriculum of AICTE, and academic content is amalgamated with the concept of outcome- based education.

Book covers four units- Ecosystem, Air and Noise Pollution, Renewable Sources of Energy and Solid waste management, ISO 14000 & Environmental Management, Every unit contains as set of exercise at the end of each unit to test the student’s comprehension. Some salient features of the book: 1 Content of the book aligned with the mapping of Course Outcomes,

Programs Outcomes and Unit Outcomes. | Book provides lots of recent information, interesting facts, QR Code for E-resources, QR Code for use of ICT, projects, group discussion etc. | Student and teacher centric subject materials included in book with balanced and chronological manner. | Figures and tables are insert to improve clarity of the topics. | Objective questions, Short questions and long answer exercise given for practice of students after every unit.

Omics and Plant Abiotic Stress Tolerance - Narenda Tuteja 2011

"Multiple biotic and abiotic environmental factors may constitute stresses that affect plant growth and yield in crop species. Advances in plant physiology, genetics, and molecular biology have greatly improved our understanding of plant responses to stres"

Triboelectric Nanogenerators - Zhong Lin Wang 2016-08-17

This book introduces an innovative and high-efficiency technology for mechanical energy

harvesting. The book covers the history and development of triboelectric nanogenerators, basic structures, working principles, performance characterization, and potential applications. It is divided into three parts: Part A illustrates the fundamental working modes of triboelectric nanogenerators with their prototype structures and theoretical analysis; Part B and Part C introduce two categories of applications, namely self-powered systems and self-powered active sensors. The book will be an ideal guide to scientists and engineers beginning to study triboelectric nanogenerators or wishing to deepen their knowledge of the field. Readers will be able to place the technical details about this technology in context, and acquire the necessary skills to reproduce the experimental setups for fabrication and measurement.

Environmental and Health Management of Novel Coronavirus Disease (COVID-19) -

Mohammad Hadi Dehghani 2021-06-26

Environmental and Health Management of Novel

Coronavirus Disease (COVID-19) examines mitigation measures that can be adopted at the time of a novel coronavirus outbreak to lessen environmental contamination and impacts on human health. The book discusses origin, structure and pathogenesis, epidemiology, environmental transmission and the potential spread routes of COVID-19 via surfaces, air, water, wastewater, medical waste and food products. It also covers guidelines and protocols for setting safety conditions to provide adequate health care and reduce the risk of infection in health and non-healthcare settings, along with preventative measures and disinfection technologies. In addition, the book discusses challenges, opportunities and future perspectives, the global crisis, and global consequences on the environment and health. With contributions from experts, this book presents a multidisciplinary reference resource for virologists, microbiologists, public health professionals, environmental health managers

and others engaged in the study and mitigation of the environmental and health impacts of the virus. Covers the environmental transmission and spread of COVID-19 Includes environmental disinfection technologies for prevention of COVID-19 Provides guidelines, standards and protocols related to COVID-19

Environmental Engineering & Management

- Dr. Suresh K. Dhameja 2009

Text Book of Environmental Studies -

Gurdeep R. Chatwal 2004

Organic Pollutants - M. Vasanthy 2021-10-23

This volume describes the identification of emerging organic pollutants, mainly from industrial sources, their associated toxicological threats, and the latest green methods and biotechnological solutions to abate harmful impacts on people and the environment. The chapters present reviews on current applied toxicology research, occupational health hazards

and green remedial solutions for pollution control in terrestrial and aquatic environments, with the aim of raising public awareness of these issues and providing chemists, toxicologists and environmental scientists with the knowledge to combat organic pollutants through sustainable means. Readers will learn about the multi-dimensional applications of materials and processes which harvest energy out of environmental remediation technologies, as well as the roles of biotechnology and nanotechnology in addressing high pollutant load. Specific attention is paid to technologies that draw energy through wastewater remediation, as this covers the primary means by which organic pollutants are introduced into the environment from industry and other sources. The book will be of use to pollution control boards, industry regulators, and students and researchers in the fields of biotechnology, biomedical science, hydrology and water chemistry.

Biostimulants in Agriculture - Youssef Roupheal 2020-03-24

Western Ghats - From Ecology To Economics - Shanavas P H 2016-01-23

The hill chain of Western Ghats, a treasure trove of biodiversity and the water tower of peninsular India has been engrossed the attention of various stakeholders all over the world. This region is identified as one among the eight hottest hotspots of biodiversity and hence attracted worldwide attention. This book is a compilation of various research articles related to Western Ghats, its ecology, environment, geography, biodiversity, etc. The editors have taken utmost care to include articles related to various issues such as, the debates over WGEEP and HLWG reports, studies on mining and quarrying activities, agriculture and allied activities, issues related to sustainable agricultural practices, agrarian distress, impact of migration, changing land use pattern, other

economic activities and its impact on the environment and ecology, etc. The book offers an insight into the concerns of the farmers and offers policy solutions wherever possible.

Agroecology, Ecosystems, and Sustainability -

Noureddine Benkeblia 2014-11-20

We hear a lot about how agriculture affects climate change and other environmental issues, but we hear little about how these issues affect agriculture. When we look at both sides of the issues, we can develop better solutions for sustainable agriculture without adversely affecting the environment. Agroecology,

Ecosystems, and Sustainability explore

Advancements in Developing Abiotic Stress-

Resilient Plants - M. Iqbal R. Khan 2022-06-21

Plants often encounter abiotic stresses including drought, salinity, flooding, high/low temperatures, and metal toxicity, among others. The majority of these stresses occur simultaneously and thus limit crop production. Therefore, the need of the hour is to improve the

abiotic stresses tolerance of crop plants by integrating physiology, omics, and modern breeding approaches. This book covers various aspects including (1) abiotic stress responses in plants and progress made so far in the allied areas for trait improvements, (2) integrates knowledge gained from basic physiology to advanced omics tools to assist new breeding technologies, and (3) discusses key genes, proteins, and metabolites or pathways for developing new crop varieties with improved tolerance traits.

Plant and Microbe Adaptations to Cold in a Changing World - Ryozo Imai 2013-09-14

This book includes papers from keynote lecture and oral presentations of Plant and Microbe Adaptations to Cold (PMAC) 2012, an international conference on winter hardiness of crop and pathogenic microbes. The PMAC has been started in 1997 in Japan as an interdisciplinary forum for scientists and extension people working in the field in plant

pathology, plant physiology, microbiology, and crop breeding to increase our knowledge and improve our understanding of overwintering of crops, forages and grasses and solve the problems associated with losses due to freezing and heavy snow cover. Successive meetings have been held in Iceland (2000), Canada (2003), Italy (2006), and Norway (2009). PMAC2012 will be a special meeting with a focus on global climate change, food security and agriculture sustainability and the whole program will be arranged to reflect this theme. The topics covered by this proceedings includes, global warming in agricultural environment, plant adaptations to cold, microbial adaptations to cold, plant-microbe interaction under cold, and molecular breeding for winter hardiness. The researches range from molecular biology to ecology and breeding. Experts in the field will report cutting edge research and thoughtful strategies for sustainability.

Chemometrics and Cheminformatics in Aquatic

Toxicology - Kunal Roy 2022-01-06
CHEMOMETRICS AND CHEMINFORMATICS IN AQUATIC TOXICOLOGY Explore chemometric and cheminformatic techniques and tools in aquatic toxicology Chemometrics and Cheminformatics in Aquatic Toxicology delivers an exploration of the existing and emerging problems of contamination of the aquatic environment through various metal and organic pollutants, including industrial chemicals, pharmaceuticals, cosmetics, biocides, nanomaterials, pesticides, surfactants, dyes, and more. The book discusses different chemometric and cheminformatic tools for non-experts and their application to the analysis and modeling of toxicity data of chemicals to various aquatic organisms. You'll learn about a variety of aquatic toxicity databases and chemometric software tools and web servers as well as practical examples of model development, including illustrations. You'll also find case studies and literature reports to round out your

understanding of the subject. Finally, you'll learn about tools and protocols including machine learning, data mining, and QSAR and ligand-based chemical design methods. Readers will also benefit from the inclusion of: A thorough introduction to chemometric and cheminformatic tools and techniques, including machine learning and data mining An exploration of aquatic toxicity databases, chemometric software tools, and webservers Practical examples and case studies to highlight and illustrate the concepts contained within the book A concise treatment of chemometric and cheminformatic tools and their application to the analysis and modeling of toxicity data Perfect for researchers and students in chemistry and the environmental and pharmaceutical sciences, Chemometrics and Cheminformatics in Aquatic Toxicology will also earn a place in the libraries of professionals in the chemical industry and regulators whose work involves chemometrics.

A Textbook of Engineering Mathematics

(For First Year ,Anna University) - N.P. Bali
2009

Oxford Textbook of Heart Failure - Roy S. Gardner 2011-07-14

Written by internationally renowned leaders in their field and relevant to all practicing clinicians, this textbook comprehensively covers all aspects of heart failure, and suggests the optimal evidence-based management for heart failure patients.

Sport Tourism Development - Tom Hinch
2011

Continued growth in the demand for sport tourism experiences has heightened the need for advanced, in-depth and critical insights that are theoretically informed. This incisive book has been written to address that need and to stimulate the curiosity of students, educators and practitioners alike.

Environmental Science - Y. K. Singh 2006-12
Environmental Science is one of the most

important areas of research and study in present time and its application in every aspect of life has also increased . Keeping this in view, almost all Indian Universities have introduced it as a compulsory course. This book is intended to suit the needs of graduate and postgraduate students pursuing environmental studies. To save the natural environment, a good and effective understanding of environmental science is needed. Environmental science is a term that has been widely used in recent years and its manifestations can range from environmental awareness learning through complex and expensive environmental study to operational research studies of environmental education systems.

Functional Foods - Hari Niwas Mishra 2016

Nitric Oxide in Plants - Mohammad Abass Ahanger 2022-05-16

ORGANIC REACTIONS Examines the beneficial roles of nitric oxide in growth and stress

tolerance regulation through its involvement in tolerance mechanisms Studies have identified the central role of nitric oxide in stress mitigation through the modulation of physiological and biochemical pathways including germination, photosynthesis regulation, and programmed cell death. Nitric Oxide in Plants: A Molecule with Dual Roles provides a detailed account of the physio-biochemical, molecular, and omic basis of NO-mediated responses in crop plants under different stresses. Summarizing recent work from leading researchers in the field, this up-to-date volume presents the current understanding of the modulation of the endogenous nitric oxide concentration following exogenous treatments and nitric oxide scavengers or inhibitors. The contributors discuss topics such as NO-mediated regulation of growth, photosynthesis, and tolerance mechanisms, the reductive and oxidative pathways of NO synthesis, molecular interventions for enhancing NO synthesis, the

role of nitrogen in production of NO, beneficial microbes in NO production under normal and changing environmental conditions, and more. Includes an overview of the biosynthesis and regulation of NO synthesis in plants Describes the enzymatic and non-enzymatic biosynthesis of NO and the influence of different stress factors on NO synthesis Explores the role of reactive oxygen, sulphur, and nitrogen species in stress signaling Discusses endogenous and exogenous NO in modifying the ascorbate-glutathione cycle Explains the crosstalk mechanisms underlying NO and phytohormones, including auxins, cytokinins, abscisic acid, and ethylene Nitric Oxide in Plants: A Molecule with Dual Roles is an essential resource for academics, students, and industry professionals studying the role of nitric oxide in environmental stress tolerance and its interaction with key signaling molecules.

Environmental Change in the Himalayan Region - Anup Saikia 2019

The book focuses on environment and

conservation issues pertaining to the Himalayas, spanning Pakistan, Nepal, India, Bhutan and Myanmar. Environmental degradation, changes in snow cover and glaciers in India-Bhutan, threats to protected areas, and biodiversity in this ecologically fragile region are assessed in twelve distinct, regional case studies.

Advances in Solid and Hazardous Waste Management - Sudha Goel 2017-08-03

This book presents reviews, examples and case studies of innovative applications in solid and hazardous waste management. The economics of waste management have since become a significant research area in their own right, and two chapters address these issues. In addition, dedicated chapters cover specific categories of waste such as biomedical and institutional waste, plastics and e-waste. The book subsequently discusses newer analytical methods like SEM, EDX, XRD and optical microscopy, along with selected “older” methods for sampling and characterizing different types

of waste. The various applications of mathematical tools like linear optimization, various software/models like WISCLEach, and DRASTIC, and tools like remote sensing and GIS are illustrated in many of the chapters. Lastly, since composting is one of the most popular treatment methods for managing the organic component of municipal solid waste, the book provides an overview of composting and the fundamentals of microbiology that are essential to understanding waste-related biological processes. The book was primarily written for students and practitioners in the field who are already familiar with the basics. All chapters were prepared by practicing experts and scholars in the field, and are intended to help readers better understand and apply these principles and practices in their own endeavours. Key topics covered in the book: • The circular economy and the economics of solid waste management • Various remote sensing and GIS applications for managing municipal

solid waste, coal fires in mines, changes in land use and land cover in industrial areas, etc. • Treatment and management of different types of solid waste: institutional (including biomedical), residential, e-waste, plastic, and ash from thermal power plants • Sampling and characterization of municipal waste and compost • Fundamentals of microbiology • Overview of environmental regulations, especially those pertaining to solid and hazardous waste management

Environmental Studies - Benny Joseph 2008

The Era of Artificial Intelligence, Machine Learning, and Data Science in the

Pharmaceutical Industry - Stephanie K.

Ashenden 2021-04-23

The Era of Artificial Intelligence, Machine Learning and Data Science in the Pharmaceutical Industry examines the drug discovery process, assessing how new technologies have improved effectiveness.

Artificial intelligence and machine learning are considered the future for a wide range of disciplines and industries, including the pharmaceutical industry. In an environment where producing a single approved drug costs millions and takes many years of rigorous testing prior to its approval, reducing costs and time is of high interest. This book follows the journey that a drug company takes when producing a therapeutic, from the very beginning to ultimately benefitting a patient's life. This comprehensive resource will be useful to those working in the pharmaceutical industry, but will also be of interest to anyone doing research in chemical biology, computational chemistry, medicinal chemistry and bioinformatics. Demonstrates how the prediction of toxic effects is performed, how to reduce costs in testing compounds, and its use in animal research. Written by the industrial teams who are conducting the work, showcasing how the technology has improved and where it should be

further improved. Targets materials for a better understanding of techniques from different disciplines, thus creating a complete guide. [Innovative Food Science and Emerging Technologies](#) - Sabu Thomas 2018-09-03. This volume covers many new trends and developments in food science, including preparation, characterization, morphology, properties, and recyclability. The volume considers food quality, shelf life, and manufacturing in conjunction with human nutrition, diet, and health as well as the ever-growing demand for the supply and production of healthier foods. Distinguished scientists specializing in various disciplines discuss basic studies, applications, recent advances, difficulties, and breakthroughs in the field. The volume includes informative discussions and new research on food formulations, manufacturing techniques, biodegradably flexible packaging, packaged foods, beverages, fruits and vegetable processing, fisheries, milk

and milk products, frozen food and thermo processing, grain processing, meat and poultry processing, rheological characteristics of foods, heat exchangers in the food industry, food and health (including natural cures and food supplements), spice and spice processing, and more.

Ecology And Environment - P. D. Sharma 2012

1. Introduction 2. Climatic and Topographic Factors 3. Edaphic Factors (Soil Science) 4. Biotic Factor 5. Ecological Adaptations 6. Autecology of Species 7. Population - Structure and Dynamics 8. Community-Structure and Classification 9. Community Dynamics (Ecological Succession) 10. Ecosystem: Structure and Function 11. Habitat Ecology 12. Degradation of Natural Resources and the Environmental Problems 13. Energy Crisis and Non-Conventional Sources 14. Biodiversity and Wildlife of India and its Conservation 15. Environment and Development-India's Viewpoint 16. Global Warming and Climate

Change 17.

FOOD SECURITY IN INDIA - S. Ramaswamy
2019-06-06

Chapter - I Introduction, Chapter - II Food Security: Inter and Intranational Perspectives, Chapter - III Concepts, Theories and Food Security Aspects, Chapter - IV Profile of the Study Area, Chapter - V Food Security among Socially Excluded Communities in Rural Tamil Nadu, Chapter - VI Summary of Major Findings and Conclusion, References The right to food and freedom from hunger re-emerged during 1990s. The historical World Food Summit was held in Rome in 1996, in which 185 countries participated and signed the 'Rome Declaration on World Food Security' which reaffirmed the right of everyone to have access to safe and nutritious food. Consequently, the right to adequate food is recognized as a fundamental human right. The world communities, further pledged in 2000 to cut the number of the world's hungry people to half between 1990 and 2015,

as one of the Millennium Development Goals (United Nations, 2008). Food security is an important means to realize the right to food. It means the assured access to adequate food to all members of the household throughout the year. The Nobel Laureate, Amartya Sen (1981) has suggested a framework of food entitlement in order to understand the genesis of hunger and the access to food. According to him, own production, stored wealth, employment, kinship and government transfers are all possible sources of food entitlement. Food security as defined by Food and Agriculture Organisation of the United Nations (FAO, 2005) “exists when all people, at all times, have physical, social and economic access to sufficient, safe and nutritious food that meets their dietary needs and food preference for an active and healthy life”. Household food security is the application of this concept to the family level, with individuals within the households as the focus of concern. India has been witnessing the phenomenon of

erratic monsoon consistently. It has serious implications on the food sufficiency and food security of the country. Poor monsoons also affect the welfare of people in terms of availability of drinking water and employment opportunities. Studies on food security have not been carried out in Rural Tamil Nadu by academic and specialized research institutions.

Nitric Oxide in Plant Physiology - Shamsul Hayat 2009-09-22

Written by a truly global team of researchers from Europe, Asia and the Americas with strong ties to agricultural research centers and the agrochemical industry, this ready reference and handbook focuses on the role of nitric oxide signaling in plant defense systems against pathogens, parasites and environmental stress response. This is one of the first titles to provide a comprehensive overview of the physiological role of this ubiquitous signaling molecule in higher plants, making it an indispensable resource not only for academic institutions but

also for those working in the agrochemical industry.

Environmental Change in the Himalayan Region
- Anup Saikia 2019-02-19

The book focuses on environment and conservation issues pertaining to the Himalayas, spanning Pakistan, Nepal, India, Bhutan and Myanmar. Environmental degradation, changes in snow cover and glaciers in India-Bhutan, threats to protected areas, and biodiversity in this ecologically fragile region are assessed in twelve distinct, regional case studies.

Environmental Studies - B. S. Chauhan 2008-05

This book is intended to meet the academic requirements of the subject 'Environmental Studies' for undergraduate students in Indian and overseas universities. The contents have been prepared keeping in mind the widest possible variations in the background of the users. The entire UGC syllabus and supplementary materials are in the nine chapters. Chapter 1 describes the

multidisciplinary nature of environmental studies. Chapter 2 and 3 comprehensively elaborate the forest, water, minerals, food, energy and land resources. Chapter 4 explains various aspects of biodiversity. Chapter 5 discusses the science of ecology and concepts of ecosystem. Chapter 6 is an exhaustive description of environmental pollution, its sources, effects and control measures. The sustainable development has been discussed in Chapter 7. Issues on environment and health, human rights, AIDS, women & child welfare and role of IT industry have been addressed in great length in Chapter 8. Key features of this book include authentic, simple to the point and latest account of each and every topic besides well sketched illustrations and various case studies. The book also contains glossary of terms which can be of particular use to students with little or no science background, and appendices and abbreviations commonly used in describing environmental studies

A Textbook of Engineering Physics - M N

Avadhanulu 1992

A Textbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages.

Master the OBVIOUS - Virat DESWAL

2021-05-22

Do you know that a good night's sleep heals psychological trauma? And how you can optimize your sleep? Do you know that your posture affects your mood? And how you can use it to hack your brain chemistry and become more assertive and happy? Do you know how to eat? And how you can eat less and still feel full? Or eat more and not feel bloated? Are you even breathing correctly? And know how to use your

breath to become calm and clear-headed in a stressful situation? This book is only 4000 words long- and it took me 6 months to write. I didn't just jot down the words, I looked at the scientific literature and self-experimented with everything that's listed here. This book will fix and improve eating, breathing, sleeping and other basic aspects of your life in easy and well-defined steps. Ace the details of your routine- the daily habits that literally dictate your life no matter where you are- or how rich or poor or happy or unhappy you are. Things that you do every day- mundane, and in some strange way, deeply intimate because of their idiosyncrasy. They decide how wide your smile, how proud your stride and how deep your sleep is. This book utilizes insights from monks, scientists, and a diverse body of research and turns them into actionable steps that help improve your life from the ground up. Healthy living is not a giant leap, it is a series of small steps.

Oxford Textbook of Epilepsy and Epileptic

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Seizures - Samden Lhatoo 2013

Part of the Oxford Textbooks in Clinical Neurology (OTCN) series, this volume covers the scientific basis, clinical diagnosis, and treatment of epilepsy and epileptic seizures, and is complemented by an online edition.

Environmental Protection Law and Policy in India - Kailash Thakur 1997

Recent Advances in Environmental Science from the Euro-Mediterranean and Surrounding Regions (2nd Edition) -

Mohamed Ksibi 2021-04-09

This book includes over three hundred and seventy-five short papers presented during the second EMCEI, which was held in Sousse, Tunisia in October 2019. After the success of the first EMCEI in 2017, the second installment tackled emerging environmental issues together with new challenges, e.g. by focusing on innovative approaches that contribute to achieving a sustainable environment in the

Mediterranean and surrounding regions and by highlighting to decision makers from related sectors the environmental considerations that should be integrated into their respective activities. Presenting a wide range of environmental topics and new findings relevant to a variety of problems in these regions, this volume will appeal to anyone working in the subject area and particularly to students interested in learning more about new advances in environmental research initiatives in view of the worsening environmental degradation of the Mediterranean and surrounding regions, which has made environmental and resource protection into an increasingly important issue hampering sustainable development and social welfare.

Textbook of Environmental Studies for Undergraduate Courses - Erach Bharucha 2005-11

The Importance Of Environmental Studies Cannot Be Disputed Since The Need For Sustainable Development Is A Key To The Future

Of Mankind. Recognising This, The Honourable Supreme Court Of India Directed The Ugc To Introduce A Basic Course On Environmental Education For Undergraduate Courses In All Disciplines, To Be Implemented By Every University In The Country. Accordingly, The Ugc Constituted An Expert Committee To Formulate A Six-Month Core Module Syllabus For Environmental Studies. This Textbook Is The Outcome Of The Ugc S Efforts And Has Been Prepared As Per The Syllabus. It Is Designed To Bring About An Awareness On A Variety Of Environmental Concerns. It Attempts To Create A Pro-Environmental Attitude And A Behavioural Pattern In Society That Is Based On Creating Sustainable Lifestyles And A New Ethic Towards Conservation. This Textbook Stresses On A Balanced View Of Issues That Affect Our Daily Lives. These Issues Are Related To The Conflict Between Existing `Development Strategies And The Need For `Conservation . It Not Only Makes The Student Better Informed On These

Concerns, But Is Expected To Lead The Student Towards Positive Action To Improve The Environment. Based On A Multidisciplinary Approach That Brings About An Appreciation Of The Natural World And Human Impact On Its Integrity, This Textbook Seeks Practical Answers To Make Human Civilization Sustainable On The Earth S Finite Resources. Attractively Priced At Rupees One Hundred And Fifteen Only, This Textbook Covers The Syllabus As Structured By The Ugc, Divided Into 8 Units And 50 Lectures. The First 7 Units, Which Cover 45 Lectures Are Classroom Teaching-Based, And Enhance Knowledge Skills And Attitude To Environment. Unit 8 Is Based On Field Activities To Be Covered In 5 Lecture Hours And Would Provide Students With First Hand Knowledge On Various Local Environmental Issues.

Nitric Oxide in Plant Biology - Vijay Pratap Singh
2021-09-19

Nitric Oxide in Plant Biology: An Ancient Molecule with Emerging Roles is an extensive

volume which provides a broad and detailed overview of Nitric Oxide (NO) in plant biology. The book covers the entirety of the crucial role NO plays in the plant lifecycle, from the regulation of seed germination and growth to synthesis, nitrogen fixation and stress response. Beginning with NO production and NO homeostasis, Nitric Oxide in Plant Biology goes on to cover a variety of NO roles, with a focus on NO signalling, crosstalk and stress responses. Edited by leading experts in the field and featuring the latest research from laboratories from across the globe, it is a comprehensive resource of interest to students and researchers working in plant physiology, agriculture, biotechnology, and the pharmaceutical and food industries. Provides a broad and detailed overview on NO in plant biology, including NO production, NO signaling, NO homeostasis, crosstalk and stress responses Edited by leading experts in the field Features the latest research from laboratories from across the globe

Extreme Hydrology and Climate Variability - Assefa M. Melesse 2019-07-03
Extreme Hydrology and Climate Variability: Monitoring, Modelling, Adaptation and Mitigation is a compilation of contributions by experts from around the world who discuss extreme hydrology topics, from monitoring, to modeling and management. With extreme climatic and hydrologic events becoming so frequent, this book is a critical source, adding knowledge to the science of extreme hydrology. Topics covered include hydrometeorology monitoring, climate variability and trends, hydrological variability and trends, landscape dynamics, droughts, flood processes, and extreme events management, adaptation and mitigation. Each of the book's chapters provide background and theoretical foundations followed by approaches used and results of the applied studies. This book will be highly used by water resource managers and extreme event researchers who are interested in understanding

the processes and teleconnectivity of large-scale climate dynamics and extreme events, predictability, simulation and intervention measures. Presents datasets used and methods followed to support the findings included, allowing readers to follow these steps in their own research Provides variable methodological approaches, thus giving the reader multiple hydrological modeling information to use in their work Includes a variety of case studies, thus making the context of the book relatable to everyday working situations for those studying extreme hydrology Discusses extreme event management, including adaption and mitigation

Biotechnology for Environmental Management and Resource Recovery - Ramesh Chander Kuhad 2013-03-25

Various types of secondary agriculture and forestry wastes represent valuable resource materials for developing alternate energy as biofuels and other value added products such as sugars, phenols, furans, organic acids, enzymes

and digestible animal feed etc. However, if not managed properly, waste material and environmental contaminants generated by various industries such as food and feed, pulp and paper and textile may lead to severe environmental pollution. The energy, food and feed demand necessitate developing simple and economically viable technologies for environmental management and resource recovery. Microorganisms and their enzymes contribute significantly in utilization of plant residues, resource recovery and eventually in pollution mitigation. "Biotechnology for Environmental Management and Resource Recovery" presents a comprehensive review of selected research topics in a compendium of 16 chapters related to environmental pollution control and developing biotechnologies in agro-ecosystem management and bioconversion of agro-residues (lignocellulosics) into biofuels, animal feed and paper etc. This book provides a valuable resource for reference and text

material to graduate and postgraduate students, researchers, scientists working in the area of microbiology, biotechnology, and environmental science and engineering.

Environmental Aspects of Zoonotic Diseases -

Robert Armon 2012-01-31

Environmental Aspects of Zoonotic Diseases provides a definitive description, commentary and research needs of environmental aspects related to zoonotic diseases. There are many interrelated connections between the environment and zoonotic diseases such as: water, soil, air and agriculture. The book presents investigations of these connections, with specific reference to environmental processes such as: deforestation, floods, draughts, irrigation practices, soil transfer and their impact on bacterial, viral, fungal, and parasitological spread. Environmental aspects such as climate (tropical, sub-tropical, temperate, arid and semi-arid), developed and undeveloped countries, animal (domestic and

wild) traffic animal border crossing, commercial animal trade, transportation, as well geography and weather on zoonosis, are also discussed and relevant scientific data is condensed and organized in order to give a better picture of interrelationship between the environment and current spread of zoonotic diseases. Altogether, the book presents a remarkable and a vast amount of potential future research directions based on the link: environment-vectors-pathogens-humans. The most up-to-date source of information on this increasingly important cross-disciplinary subject, *Environmental Aspects of Zoonotic Diseases* will be invaluable for environmentalists, veterinarians, medical staff, environmental engineers, government agencies and consultants working in this field. Authors: Prof. Robert Armon, Technion (Israel Institute of Technology), Haifa, Israel, Dr. Uta Cheruti, Technion (Israel Institute of Technology), Haifa, Israel

Basic Environmental Engineering - R. C. Gaur

2008