

Environmental Studies Kaushik

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Living with Oil and Coal - Dolly Kikon 2019

The nineteenth-century discovery of oil in the eastern Himalayan foothills, together with the establishment of tea plantations and other extractive industries, continues to have a profound impact on life in the region. In the Indian states of Assam and Nagaland, everyday militarization, violence, and the scramble for natural resources regulate the lives of Naga, Ahom, and Adivasi people, as well as migrants from elsewhere in the region, as they struggle to find peace and work. Anthropologist Dolly Kikon uses in-depth ethnographic accounts to address the complexity of Northeast India, a region between Southeast Asia and China where boundaries and borders are made, disputed, and maintained. Bringing a fresh and exciting direction to borderland studies, she explores the social bonds established through practices of resource extraction and the tensions these relations generate, focusing on peoples' love for the landscape and for the state, as well as for family, friends, and neighbors. Living with Oil and Coal illuminates questions of citizenship, social justice, and environmental politics that are shared by communities worldwide.

Environmental Science (As Per PTU Syllabus) (Common To All Branches) - Anubha Kaushik 2008-01-01

About the Book: Environmental Science pertain to a systematic analysis of the natural and man-made world encompassing various scientific, economic, social and ethical aspects. Human impacts leading to large scale degradation of the environment have aroused global concern on environmental issues in the recent years. The apex court has hence, issued directive to impart environmental literacy to all. In this book the fundamental concepts of environmental studies have been introduced and analysed in a simple manner strictly as per the module syllabus designed by the U.G.C. for undergraduate courses in science, humanities, engineering, medicine, pharmacy, commerce, management and law. Besides the undergraduate students of all disciplines the book will also be useful for those appearing in various competitive exams since environmental issues now find a focus in most of such examinations. The contents of the book will be of interest to all educationists, planners and policy makers. Key features of the book include a simple and holistic approach with illustrations, tables and specific case studies mainly in the Indian context. The basic terminologies have been defined in the text while introducing the topics and some useful terms mentioned in the text have been explained in the glossary for an easy grasp by students of all disciplines.

Nutrient Requirements and Feeding of Finfish for Aquaculture - Carl D. Webster 2002-02-01

Good nutrition is fundamental to the success and sustainability of the aquaculture industry in terms of economics, fish health, high quality product production and minimizing environmental pollution. This book provides a unique, complete coverage of current information on nutrient requirements, feed formulations and feeding practices of commercially important aquaculture species cultured around the world. Each chapter contains detailed feeding information on specific species and is written by an expert nutritionist on that species. The book is of interest to those working professionally in the industry, graduate level students and researchers.

Electrical Connectors - San Kyeong 2020-12-15

Discover the foundations and nuances of electrical connectors in this comprehensive and insightful resource Electrical Connectors: Design, Manufacture, Test, and Selection delivers a comprehensive discussion of electrical connectors, from the components and materials that comprise them to their classifications and underwater, power, and high-speed signal applications. Accomplished engineer and author Michael G. Pecht offers readers a thorough explanation of the key performance and reliability concerns and trade-offs involved in electrical connector selection. Readers, both at introductory and advanced levels, will

discover the latest industry standards for performance, reliability, and safety assurance. The book discusses everything a student or practicing engineer might require to design, manufacture, or select a connector for any targeted application. The science of contact physics, contact finishes, housing materials, and the full connector assembly process are all discussed at length, as are test methods, performance, and guidelines for various applications. Electrical Connectors covers a wide variety of other relevant and current topics, like: A comprehensive description of all electrical connectors, including their materials, components, applications, and classifications A discussion of the design and manufacture of all parts of a connector Application-specific criteria for contact resistance, signal quality, and temperature rise An examination of key suppliers, materials used, and the different types of data provided A presentation of guidelines for end-users involved in connector selection and design Perfect for connector manufacturers who select, design, and assemble connectors for their products or the end users who concern themselves with operational reliability of the system in which they're installed, Electrical Connectors also belongs on the bookshelves of students learning the basics of electrical contacts and those who seek a general reference with best-practice advice on how to choose and test connectors for targeted applications.

Smartonomics - Shlomo Maital 2017-01-23

In today's global village, every manager is a global manager. Even if your business is putatively 'local', with no sales abroad, you still probably face competitors in other countries. Smartonomics provides global managers with a simple, powerful set of macroeconomic tools, many of which have been until now rather opaque for non-economists, that empower them to think independently, swim against the tide (when warranted), and at times enter markets when everyone else is abandoning them. It will provide managers a holistic picture of the global marketplace and the systemic risks it conceals. Throughout this book, readers will find numerous case studies, illustrating how smart managers transform risk into opportunity, as well as numerous action learning exercises, to help readers test whether they understand the eight tools well enough to employ them and through them achieve important insights.

Climate Resilience and Environmental Sustainability Approaches - Anubha Kaushik 2021-09-07

The book is about climate resilience and environmental sustainability approaches, discussing knowledge at global level and the local challenges, presented by authors from various countries. Environmental sustainability is at stake and implications of climate change are clearly visible in most parts of the world. In the times of the prevailing global environmental crisis, this book discusses key issues of climate change and sustainable energy alternatives, waste management and development. It discusses climate change scenario using simulation models in various Asian countries, signatures of climate change in Antarctica, implications in the Indian Ocean and the Indian scenario of REDD+. A special focus has been given on building climate resilience in our agricultural ecosystems and sustainable agriculture. It discusses the prospects and challenges of renewable energy options including biofuels and energy from wastewaters, explores the technical aspects of eco-friendly bioremediation of pollutants, sustainable solid waste management practices and challenges, carbon footprints of industry, and emphasizes on the significance of combining traditional knowledge with modern technology with novel approaches including involvement of social enterprises and corporate social responsibility to achieve the Sustainable Development Goals. This is an important document for researchers and policy makers working in multidisciplinary fields of sustainability sciences.

Lively Capital - Kaushik Sunder Rajan 2012-04-02

Lively Capital is an urgent and important collection of essays addressing the reconfigured relations between the life sciences and the market.

Exploring the ground where social and cultural anthropology intersect with science and technology studies, prominent scholars investigate the relationship of biotechnology to ethics, governance, and markets, as well as the new legal, social, cultural, and institutional mechanisms emerging to regulate biotechnology. The contributors examine genomics, pharmaceutical marketing, intellectual property, environmental science, clinical trials, patient advocacy, and other such matters as they are playing out in North and South America, Europe, Africa, and Asia. *Lively Capital* is not only about the commercialization of the life sciences, but their institutional histories, epistemic formations, and systems of valuation. It is also about the lively affects—the emotions and desires—involved when technologies and research impinge on experiences of embodiment, kinship, identity, disability, citizenship, accumulation, and dispossession. At stake in the commodification of the life sciences are opportunities to intervene in and adjudicate matters of health, life, and death. Contributors: Timothy Choy, Joseph Dumit, Michael M. J. Fischer, Kim Fortun, Mike Fortun, Donna Haraway, Sheila Jasanoff, Wen-Hua Kuo, Andrew Lakoff, Kristin Peterson, Chloe Silverman, Elta Smith, Kaushik Sunder Rajan, Travis J. Tanner
Nanotechnology in Cancer Management - Kamil Reza Khondakar
2021-05-18

Nanotechnology in Cancer Management: Precise Diagnostics toward Personalized Health Care provides a well-focused and comprehensive overview of technologies involved in early stage cancer diagnostics via the detection of various cancer biomarkers, both in-vitro and in-vivo. The book briefly describes the advancement in cancer biomarker research relating to cancer diagnostics, covering fundamental aspects of various techniques, especially transduction methodologies, such as electrochemical, optical, magnetic, etc. In addition, it describes approaches on how to make options cost-effective, scalable for clinical application, and user-friendly. Advancements in technology related to device miniaturization, performance improvement and point-of-care applications round out discussions. Final sections cover future challenges, the prospects of various techniques, and how the introduction of nanotechnology in cancer management in a personalized manner is useful. Includes smart sensing materials such as smart electro-active nanomaterials, sensitive transducers development, nano-enabled advanced imaging, miniaturized analytical system, and device integration and interfacing for point-of-care applications Describes each component involved in the development of an efficient cancer diagnostics system Focuses on fundamental and applied concepts of the technologies, along with the related mechanisms proposed for diagnostics of cancer Enhances fundamental understandings of the concepts and development of nanotechnology based analytical tools and novel techniques for early stage cancer diagnostics and management

Sustainable Energy and the Environment: A Clean Technology Approach - N.D. Kaushika 2016-05-02

This book emerges from the recognition that energy, environment and ecosystems are dynamically and inextricably connected. The energy environment system must be addressed in its totality, so that we can devise sustainable solutions that incorporate both economic growth and environmental conservation. No single clean energy source will sustain long-term energy security, and fossil fuels will remain prominent in the mix of energy sources for several decades to come. Energy solutions, therefore, must employ a broad and diverse range of approaches, including cleaner fossil fuel technologies, and an affordable transition to greener power generation employing waste, water and renewable resources. Moreover, adapting to this changing global energy picture will require a transformational shift in the ways we use and deliver energy services. The authors begin with a broad introductory chapter on sustainable energy and the environment, classifying energy resources, cataloging environmental degradations, and outlining the concepts and practices of sustainability. In Chapters Two and Three, they summarize the basic constituents of the environment, the biosphere and its natural cycles, and offer a model of Earth's planetary temperatures and the greenhouse effect. Chapters Four and Five outline conventional energy and power systems, and related environmental degradations. The next several chapters cover clean coal technologies for power generation, and discuss sustainable energy and power technologies based on both thermal and photovoltaic solar energy, along with biomass and wind. The final chapters examine in depth the management of waste and water, pollution control and energy conservation. The book introduces a unique approach to sustainability and energy conservation which emphasizes the relationships between underlying scientific principles and practical applications employed in engineering solutions. All this is offered in a

form that matches the requirements of college-level environmental science and engineering courses.

Applied Environmental Biotechnology: Present Scenario and Future Trends - Garima Kaushik 2015-01-16

Applied Environmental Biotechnology: Present Scenario and Future Trends is designed to serve as a reference book for students and researchers working in the area of applied environmental science. It presents various applications of environmental studies that involve the use of living organisms, bioprocesses engineering technology, and other fields in solving environmental problems like waste and waste waters. It includes not only the pure biological sciences such as genetics, microbiology, biochemistry and chemistry but also from outside the sphere of biology such as chemical engineering, bioprocess engineering, information technology, and biophysics. Starting with the fundamentals of bioremediation, the book introduces various environmental applications such as bioremediation, phytoremediation, microbial diversity in conservation and exploration, in-silico approach to study the regulatory mechanisms and pathways of industrially important microorganisms biological phosphorous removal, ameliorative approaches for management of chromium phytotoxicity, sustainable production of biofuels from microalgae using a biorefinery approach, bioelectrochemical systems (BES) for microbial electroremediation and oil spill remediation. The book has been designed to serve as comprehensive environmental biotechnology textbooks as well as wide-ranging reference books. Environmental remediation, pollution control, detection and monitoring are evaluated considering the achievement as well as the perspectives in the development of environmental biotechnology. Various relevant articles are chosen up to illustrate the main areas of environmental biotechnology: industrial waste water treatment, soil treatment, oil remediation, phytoremediation, microbial electro remediation and development of biofuels dealing with microbial and process engineering aspects. The distinct role of environmental biotechnology in future is emphasized considering the opportunities to contribute with new approached and directions in remediation of contaminated environment, minimising waste releases and development pollution prevention alternatives at before and end of pipe.

Trees of Delhi - Pradip Krishen 2006

Fish Nutrition - Ronald W. Hardy 2021-10-19

Fish Nutrition, Fourth Edition is an up-to-date, authoritative presentation of all key elements of the nutrition of fish and crustaceans. As aquaculture is rapidly expanding, more than 200 herbivorous and carnivorous species occupy a diverse range of ecological niches, and have therefore evolved to utilize a wide array of food sources. This new edition highlights these differences and covers the complexity and challenges associated with fish nutrition, addressing nutrient requirements to produce high-quality, healthful and sustainable resources, the essential nutrients for fish species, including proteins and amino acids, vitamins, minerals and essential fatty acids, a feed quality assessment, and fish pathology. Led by a team of international experts, this edition provides readers with new information on the use of high-throughput technologies in fish nutrition research, the role of feeds on the community structure of the microbiome, and advances in essential nutrient requirements. Features expansive updates to the previous edition, including a new chapter dedicated to diet analysis and evaluation Addresses the roles of fish nutrition and feeds on sustainability and the environmental impacts of aquaculture Covers basic nutritional biochemistry and applied nutritional topics

APC Loving Our Environment - Class 4 - Mrs. Sudesh Singh

'Loving Our Environment' series for classes 3 to 5 has been written in compliance with the latest syllabus as presented by the NCERT. The series is learner-friendly and has been designed with an objective to create social awareness in the students, in a stimulating and enjoyable manner. The lessons have been presented in a simple and explicit language to facilitate comprehension. At the end of each lesson a brief summary has been provided for an easy recap. The exercises evoke and build on their logical thinking and analytical skills. They also foster in the learners an initiative to do activities and projects, provided at the end of the lesson.

Green Nanomaterials for Industrial Applications - Uma Shanker
2021-09-29

Green Nanomaterials for Industrial Applications explores the applications of nanomaterials for a variety of industry sectors, along with their environmental impacts, lifecycle analysis, safety and sustainability. This book brings together the industrial applications of nanomaterials,

covering new trends and challenges. Significant properties, safety and sustainability and environmental impacts of synthesis routes are also explored, as are major industrial applications, including agriculture, medicine, communications, construction, energy, and in the military. This book is an important information source for those in research and development who want to gain a greater understanding of how nanotechnology is being used to create cheaper, more efficient products. Green nanomaterials have significant advantages including low cost, high efficiency, neutral environmental impact, and stability. Green Nanomaterials for Industrial Applications provides comprehensive information about green nanomaterials, their types, and methods for generation, characterization as well as their properties. Furthermore, this book also provides coverage of industrial scale fabrication methods for green nanomaterials and their applications for various industrial sectors at both experimental and theoretical models scales. This book is an important reference source for materials scientists, engineers and environmental scientists who want to learn more about how sustainable nanomaterials are being used in a range of industrial applications. Explores industrial scale fabrication of green nanomaterials Assesses environmental, legal, health and safety aspects Discusses how green nanomaterials can be manufactured on an industrial scale

Prelude to Political Economy - Kaushik Basu 2000

This volume aims to understand why some economies succeed and some fail, and why some communities prosper while others stagnate, so economics must be seen as embedded in politics and society. It is a study of this embeddedness.

Hazardous Gases - Jaspal Singh 2021-07-30

Hazardous Gases: Risk Assessment on Environment and Human Health examines all relevant routes of exposure, inhalation, skin absorption and ingestion, and control measures of specific hazardous gases resulting from workplace exposure from industrial processes, traffic fumes, and the degradation of waste materials and how they impact the health and environment of workers. The book examines the risk assessment and effect of poisonous gases on the environment human health. It also covers necessary emergency guidelines, safety measures, physiological impact, hazard control measures, handling and storage of hazardous gases. Each chapter is formatted to include an introduction, historical background, physicochemical properties, physiological role discussing mechanisms of toxicity, its effect on human health as well as environment, followed by case studies and recent research on toxic gases. Hazardous Gases: Risk Assessment on Environment and Human Health is a helpful resource for academics and researchers in toxicology, occupational health and safety, and environmental sciences as well as those in the field who work to assess and mitigate the impact of toxic gases on the work environment and the health of the workforce.

Emphasizes the environmental monitoring in the workplace of hazardous materials Includes all relevant storage and handling information required for detailing all personnel on the hazards and risks from the substances with which they work Offers practical examples and case studies related to toxic gases and their impact on health

Microbial Nanobionics - Ram Prasad 2019-06-18

Microbial Nanobionics: Volume 2, Basic Research Applications continues the important discussion of microbial nanoparticle synthesis with a focus on the mechanistic approach of biosynthesis towards nanobionics. This volume also explores the toxicity of nanomaterials in microbes and their effect on human health and the environment. Special Emphasis is given to the use of polymeric nanomaterials in smart packing for the food industry and agricultural sector. The future of nanomaterials for detection of soil microbes and their interactions and tools for environmental remedies is also comprehensively covered. The rich biodiversity of microbes make them excellent candidates for potential nanoparticle synthesis biofactories. Through a better understanding of the biochemical and molecular mechanisms of the microbial biosynthesis of metal nanoparticles, the rate of synthesis can be better developed and the monodispersity of the product can be enhanced. The characteristics of nanoparticles can be controlled via optimization of important parameters, such as temperature, pH, concentration and pressure, which regulate microbe growth conditions and cellular and enzymatic activities. Large scale microbial synthesis of nanoparticles is a sustainable method due to the non-hazardous, non-toxic and economical nature of these processes. The applications of microbial synthesis of nanoparticles are wide and varied, spanning the industrial, biomedical and environmental fields. Biomedical applications include improved and more targeted antimicrobials, biosensing, imaging and drug delivery. In the environmental fields, nanoparticles are used for bioremediation of

diverse contaminants, water treatment, catalysis and production of clean energy. With the expected growth of microbial nanotechnology, this volume will serve as a comprehensive and timely reference.

Biodegradable Composites - Kaushik Kumar 2019-05-06

With conventional materials contributing greatly to environmental waste, biodegradable and natural composites have grown in interest and display low environmental impact at low cost across a wide range of applications. This book provides an overview of different biodegradable and natural composites and focuses on efforts into increasing their mechanical performance to extend their capabilities and applications.

Perspectives in Environmental Studies - Anubha Kaushik 2006

Environmental Studies pertain to a systematic analysis of the natural and man-made world encompassing various scientific, economic, social and ethical aspects. Human impacts leading to large scale degradation of the environment have aroused global concern on environmental issues in the recent years. The apex court has hence, issued directive to impart environmental literacy to all. In this book the fundamental concepts of environmental studies have been introduced and analysed in a simple manner strictly as per the module syllabus designed by the U.G.C. for undergraduate courses in science, humanities, engineering, medicine, pharmacy, commerce, management and law. Besides the undergraduate students of all disciplines the book will also be useful for those appearing in various competitive exams since environmental issues now find a focus in most of such examinations. The contents of the book will be of interest to all educationists, planners and policy makers. Key features of the book include a simple and holistic approach with illustrations, tables and specific case studies mainly in the Indian context. The basic terminologies have been defined in the text while introducing the topics and some useful terms mentioned in the text have been explained in the glossary for an easy grasp by students of all disciplines.

Handbook of Research on Emerging Trends and Technologies in Library and Information Science - Kaushik, Anna 2019-11-22

With the perpetual advancements of technology, library and information science professionals are tasked with understanding these technologies and providing accurate and comprehensive information to other potential users. These professionals must develop best practices for understanding these technologies in order to best serve other users. The Handbook of Research on Emerging Trends and Technologies in Library and Information Science is a critical research book that examines advancing technologies and new innovations and their influences on library and information sciences for improved best practices. Featuring an array of topics such as digital libraries, distance education, and information literacy, this publication is essential for librarians, knowledge managers, information retrieval specialists, library and information science professionals, information scientists, researchers, web librarians, academicians, educators, IT specialists, and managers.

Advances in Nanosensors for Biological and Environmental Analysis - Akash Deep 2019-06-14

Advances in Nanosensors for Biological and Environmental Analysis presents the current state-of-art in nanosensors for biological and environmental analysis, also covering commercial aspects. Broadly, the book provides detailed information on the emergence of different types of nanomaterials as transduction platforms used in the development of nanosensors. These include carbon nanotubes, graphene, 2-D transition metal dichalcogenides, conducting polymers and metal organic frameworks. Additional topics include sections on the way nanosensors have inspired new product development in various types of biological and environmental applications that are currently available and on the horizon. Features detailed information on various types of biological and environmental nanosensors Gives particular attention to the different categories of advanced functional interfaces, processes for their development, and application areas Includes the current state-of-the-art in terms of commercial aspects

The Genetics of Cattle, 2nd Edition - Dorian Garrick 2014-11-28

Since the time of domestication more than 10,000 years ago, cattle have played an increasingly crucial role in the development of human civilizations. Progress has been quite remarkable since the turn of the century; the sequencing of the bovine genome in 2009 launched new avenues for furthering our understanding of theoretical and practical aspects of cattle genetics. Covering a vast array of questions, this book reviews major topics from molecular and developmental genetics, disease resistance and immunogenetics to genetic improvement of dairy and beef breeds, addressing all current problems in the field. This second edition includes a new team of authors and completely new chapters on the genetics of fat production, nutrition, feed intake and

efficiency, growth and body composition. Fully updated throughout, it provides a valuable resource on cattle genetics for researchers, breeders, veterinarians and postgraduate students.

Environmental Science And Engineering (anna University) -

Anubha Kaushik 2006

Environmental Science And Engineering Pertain To A Systematic Analysis Of The Natural And Man-Made World Encompassing Various Scientific, Economic, Social And Ethical Aspects. Human Impacts Leading To Large-Scale Degradation Of The Environment Have Aroused Global Concern On Environmental Issues In The Recent Years. The Apex Court Has Hence, Issued Directive To Impart Environmental Literacy To All. In This Book The Fundamental Concepts Of Environmental Science And Engineering Have Been Introduced And Analyzed In A Simple Manner Strictly As Per The Anna University Iind And Iiird Semester Syllabus. Besides The Undergraduate Students Of All Disciplines The Book Will Also Be Useful For Those Appearing In Various Competitive Exams Since Environmental Issues Now Find A Focus In Most Of Such Examinations. The Contents Of The Book Will Be Of Interest To All Educationists, Planners And Policy Makers. Key Features Of The Book Include A Simple And Holistic Approach With Illustrations, Tables And Specific Case Studies Mainly In The Indian Context. The Basic Terminologies Have Been Defined In The Text While Introducing The Topics And Some Useful Terms Mentioned In The Text Have Been Explained In The Glossary For An Easy Grasp By Students Of All Disciplines.

Microbial Degradation of Synthetic Dyes in Wastewaters - Shree Nath Singh 2014-10-16

Today synthetic dyes are used extensively in the textile dyeing, paper printing, color photography, pharmaceuticals, food and drink, cosmetic and leather industries. As of now, over 100,000 different dyes are available, with an annual production of over 700,000 metric tons. These industries discharge an enormous amount of colored effluents into natural water bodies, with or without treatment. The textile industry alone discharges 280,000 tons of dyes every year, making it the largest contributor to colored effluent discharge. Although a variety of treatment technologies are available, including adsorption, chemical oxidation, precipitation, coagulation, filtration electrolysis and photodegradation, biological and microbiological methods employing activated sludge, pure cultures, microbial consortia and degradative enzymes are economically viable, effective and environmentally responsible options. As such, this book gathers review articles from international experts working on the microbial degradation of synthetic dyes, offering readers the latest information on the subject. It is intended as a quick reference guide for academics, scientists and industrialists around the world.

Nanomaterials for Spectroscopic Applications - Kaushik Pal 2021-06-18

This book provides an overview of key current developments in the synthetic strategy of functional novel nanomaterials in various spectroscopic characterizations and evaluations and highlights possible future applications in nanotechnology and materials science. It illustrates the wide-ranging interest in these areas and provides a background to the later chapters, which address the novel synthesis of high-yield nanomaterials and their biomaterials, graphene, polymeric nanomaterials, green nanomaterials, green polyester, liquid crystal electro-optic switching applications, nanobiotechnology, transition metal oxides, response characteristics of exclusive spectroscopic investigation as well as electron microscopic study, flexible and transparent electrodes, optoelectronics, nanoelectronics, smart displays, switchable device modulation, health care, energy storage, solar/fuel cells, environmental and plant biology, social, ethical, and regulatory implications of various aspects of green nanotechnology, as well as significant foreseeable spectroscopic applications of key functional nanomaterials. Given appropriate regulation for and research on the topics covered, commercial production of manufactured novel composite materials can be realized. Furthermore, the many discoveries highlighted in the book can modulate spectroscopic performances with technical excellence in multidisciplinary research of high competence.

Paryavaran Adhyayan - Anubha Kaushik 2007

Anubha Kaushik Is Professor And Founder Chairperson, Department Of Environmental Science And Engineering, G.J. University, Hisar, India. She Obtained Her Doctorate From Kurukshetra University, Kurukshetra And Has Been Teaching Ecology And Environmental Sciences In M.D. University, Rohtak, K.U. Kurukshetra And G.J. University, Hisar For The Last 20 Years. She Has Won 8 Gold Medals In Her Academic Career And Was Awarded Dr. B.R. Ambedkar Fellowship Award And Gold Medal And Various National Scholarships/Fellowships. She Has Published A Large

Number Of Research Papers In International And National Journals Of Repute And Guided Several P.G. And Doctoral Thesis. She Is In The Editorial Board Of Several International And National Journals And Reviewer Of Many International Journals Of Environment. She Has Attended Many International And National Conferences, Seminars And Workshops And Chaired Technical Sessions In Some. She Is A Member Of The Appellate Authority, Haryana; Has Been A Member State Steering Committee Of National Biodiversity Strategy And Action Plan; Nominee State Environmental Protection Council, Haryana; Resource Person Of United States Educational Foundation In India (Usefi, Fulbright) At International Round Table (Saarc) On Environment And Health, And Member Of Several Other Prestigious Academic And Advisory Committees Of University Grants Commission, All India Radio And Various Indian Universities. C.P. Kaushik Is Professor And Chairman, Department Of Environmental Science And Engineering, Dean, Faculty Of Non Conventional Sources Of Energy And Environmental Science, And Dean, Academic Affairs, G.J. University, Hisar, India. He Obtained His M.Phil, And Doctorate From The University Of Delhi, Delhi. He Has A Vast Teaching And Research Experience Of 28 Years Of Which More Than 8 Years As A Professor. He Was Awarded Various National Scholarships/Fellowships During His Academic And Research Career. He Has A Large Number Of Research Publications In International And National Journals Of Repute. He Is Reviewer Of Many International And National Journals. He Has Guided Several M.Phil., M.Tech. And Ph.D. Students And Has Handled A Number Of Major Research And Consultancy Projects. He Has Attended Many International And National Conferences And Chaired Technical Sessions In Some Of Them. He Also Organised Many National Seminars, Workshops And Consortia. He Is Member Of Several Prestigious Committees Of Ministry Of Human Resource Development, GoI, University Grants Commission, Department Of Science And Technology, GoI, National Council Of Educational Research And Training, National Assessment And Accreditation Council, Department Of Environment, Govt. Of Haryana And Academic And Administrative Bodies Of Various Indian Universities.

Microbes in Microbial Communities - Raghvendra Pratap Singh 2022-01-01

The book overviews the complex interactions amongst the microbes and their possible applications. Emphasis has been made to include a wide spectrum of experimental and theoretical contributions from eminent researchers in the field. Microbial communities are the assemblages of microorganisms of various species which live together in the same environment and continuously interact with each other. The microbial cells in communities display unique phenotypes that affect the survival and reproduction of other cells present around them. These phenotypes constitute the social adaptations that drive the interactions between microbial cells. The interactions, further determine the productivity, stability and the ability of community to resist the environmental perturbations. These microbial communities live with extremely competitive niche and fight for their survival and genetic persistence. But they frequently appear in niche with multifaceted and interactive webs rather than the planktonic nature. This can be within the same species or with different species, or even with diverse genera and families. It either a competitive winner community whereas the "weaker" strain goes extinct or a competitor that coexist with their metabolic secretory potentials or a separator that assigned their own community territorial niches. Sometimes, it can be neutral or tritagonist. These microbial associations within the microbiome provides the foundation for diverse forms of microbial ecology and determined the applied perspectives for agriculture, clinical and industrial sectors. This book will be useful to postgraduate students, researchers from academic as well as industry working in the field of microbial exploration with keen interest in survival factors and mechanism of their survival by various ecological and functional strategies.

Multidisciplinary Science and Advanced Technologies - Kaushik Pal 2021
Capacitive pressure sensor based in chewing gum composites quarts filler / Fabiola da S. Maranhão.

Sundarbans Mangrove Systems - Anirban Mukhopadhyay 2021-08-15
Sundarbans, a UNESCO heritage site, is the world's largest single chunk of mangroves distributed on the Indian and Bangladesh coasts. The mangroves and associated ecosystems are one of the most fertile ecosystems of the earth. Sundarbans Mangrove Systems: A Geo-Informatics Approach portrays different perspectives of studying Sundarbans and mangroves using geospatial analysis. This book highlights the major issues with the Sundarbans mangrove forest, its future conservation strategies and its ecological importance using geo-

informatics technology. It explains the usage of remote sensing data for providing information about the present state of mangroves and their tropic status, including assessment in terms of extent, density of community, condition, diversity, identifying potential habitats and heterogeneity. Furthermore, it discusses the use of hyperspectral remote sensing data for species level classification of mangroves, community zonation for biodiversity assessment and for preparing management plans for conservation. **KEY FEATURES** Exclusively covers the ecological state of Sundarbans (mangrove systems) through geo-informatic studies Describes the application of a combination of geomorphological, biogeochemical and remote sensing methods to the analysis of temporal changes Includes environmental factors affecting the health and decline of mangroves Covers biodiversity and ecological controls in mangroves ecosystems Discusses a remote sensing approach for tropical forested island and mangroves mapping This book is aimed at graduate students and researchers in environmental sciences, ecology, marine sciences, biology, geosciences and GIS/remote sensing areas.

Creating Inclusive Schools - Bharti Kaushik 2019-03-17

Creating Inclusive Schools aims to simplify the dynamic and multidimensional discipline of Inclusive education for the students of education, and trainee and practising teachers. This book focuses on understanding the learning needs of children with disabilities and those from the socially and economically disadvantaged sections of society. It elucidates and critically analyses how these requirements are currently addressed at various levels of education and the desirable changes that can be brought about. The book explains multifarious concepts in lucid language, and establishes crucial links between theory and practice to facilitate understanding of the different dimensions of inclusive education. This textbook offers a fresh perspective into inclusive education needs, policies and practices through contextually relevant examples and cases. It is based on the curriculum guidelines prescribed by National Council for Teacher Education (NCTE) and the syllabi recommendations by major universities across India. **Key Features:** · Provides holistic understanding of inclusion in education with focus on various aspects of school environment and administration. · Contains succinct discussion of the learning needs and strategies to address them in an inclusive education setting. · Each chapter aided by learning objectives and chapter-end exercise to help readers map their progress and achievements.

Assessing the Antarctic Environment from a Climate Change Perspective - Neloy Khare 2022-01-01

The present book covers diversified contributions addressing the impact of climate change on the Antarctic environment. It covers the reconstruction of environmental changes using different proxies. The chapters focus on the glacial history, glacial geomorphology, sedimentology, and geochemistry of Antarctic region. Furthermore, the Cenozoic evolution of the Antarctic ice sheet is discussed along with a Scientometrics analysis of climate change research. The book serves as a useful reference for researchers who are fascinated by the polar region and environmental research.

Nanofabrication for Smart Nanosensor Applications - Fernando Gomes de Souza Junior 2020-06-18

Nanofabrication for Smart Nanosensor Applications addresses the design, manufacture and applications of a variety of nanomaterials for sensing applications. In particular, the book explores how nanofabrication techniques are used to create more efficient nanosensors, examines their major applications in biomedicine and environmental science, discusses the fundamentals of how nanosensors work, explores different nanofabrication techniques, and comments on toxicity and safety issues relating to the creation of nanosensors using certain nanomaterial classes. This book is an important resource for materials scientists and engineers who want to make materials selection decisions for the creation of new nanosensor devices. Summarizes current research and applications of a variety of nanofabrication techniques for the creation of efficient sensing devices Provides readers with an understanding of surfaces and interfaces, a key challenge for those working on hybrid nanomaterials, carbon nanotubes, graphene, polymers and liquid crystal electro-optical imaging Discusses the variability and sight recognition of biopolymers, such as DNA molecules, which offer a wide range of opportunities for the self-organization of nanostructures into much more complex patterns

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.

An Economist in the Real World - Kaushik Basu 2015-10-09

An economist's perspective on the nuts and bolts of economic policymaking, based on his experience as the Chief Economic Adviser in India. In December 2009, the economist Kaushik Basu left the rarefied world of academic research for the nuts and bolts of policymaking. Appointed by the then Prime Minister of India, Manmohan Singh, to be chief economic adviser (CEA) to the Government of India, Basu—a theorist, with special interest in development economics, and a professor of economics at Cornell University—discovered the complexity of applying economic models to the real world. Effective policymaking, Basu learned, integrates technical knowledge with political awareness. In this book, Basu describes the art of economic policymaking, viewed through the lens of his two and a half years as CEA. Basu writes from a unique perspective—neither that of the career bureaucrat nor that of the traditional researcher. Plunged into the deal-making, non-hypothetical world of policymaking, Basu suffers from a kind of culture shock and views himself at first as an anthropologist or scientist, gathering observations of unfamiliar phenomena. He addresses topics that range from the macroeconomic—fiscal and monetary policies—to the granular—designing grain auctions and policies to assure everyone has access to basic food. Basu writes about globalization and India's period of unprecedented growth, and he reports that at a dinner hosted by Prime Minister Manmohan Singh, President Obama joked to him, “You should give this guy some tips”—“this guy” being Timothy Geithner. Basu describes the mixed success of India's anti-poverty programs and the problems of corruption, and considers the social norms and institutions necessary for economic development. India is, Basu argues, at an economics crossroad. As CEA from 2009 to 2012, he was present at the creation of a potential economic powerhouse.

COVID-19 in the Environment - Deepak Rawtani 2021-09-22

COVID-19 in the Environment: Impact, Concerns, and Management of Coronavirus highlights the research and technology addressing COVID-19 in the environment, including the associated fate, transport, and disposal. It examines the impacts of the virus at local, national, and global levels, including both positive and negative environmental impacts and techniques for assessing and managing them. Utilizing case studies, it also presents examples of various issues around handling these impacts, as well as policies and strategies being developed as a result. Organized into six parts, COVID-19 in the Environment begins by presenting the nature of the virus and its transmission in various environmental media, as well as models for reducing the transmission. Section 2 describes methods for monitoring and detecting the virus, whereas Sections 3, 4, and 5 go on to examine the socio-economic impact, the environmental impact and risk, and the waste management impact, respectively. Finally, Section 6 explores the environmental policies and strategies that have come as a result of COVID-19, the implications for climate change, and what the long-term effects will be on environmental sustainability. Examines the fate, transport, and management of COVID-19 and COVID-19 related waste in the

environment Explores a variety of issues related to the environmental handling and impacts of COVID-19, particularly utilizing case studies Offers tools and techniques for assessing real-time environmental issues related to COVID-19

Coatings - Kaushik Kumar 2021-02-01

This book presents recent developments in the coating processes, sub processes and emphasizes on processes with the potential to improve performance quality and reproducibility. The book demonstrates how application methods, environmental factors, and chemical interactions affect each surface coating's performance. In addition, it provides analysis of latest polymers, carbon resins, high-temperature materials used for coatings and describes the development, chemical and physical properties, synthesis, polymerization, commercial uses and characteristics for each raw material and coating. Characterization techniques to solve the coating problems are also presented, as well as optimization studies to identify the critical coating parameters to ensure a robust process.

Polymers and Composites Manufacturing - Kaushik Kumar 2020-02-24

This volume reviews a wide range of processing methods which are currently being used for plastics and composites. Special focus lies on advancements in automation, in development of machines and new software for modeling, new materials for ease in manufacturing and strategies to increase productivity.

Microbial Syntrophy-mediated Eco-enterprising - Raghvendra Pratap Singh 2022-02-22

Microbial Syntrophy-Mediated Eco-enterprising summarizes and reviews possible microbial applications for eco-industrial sustainability. The book emphasizes a wide spectrum of experimental and theoretical contributions from eminent researchers in the field. In 13 chapters, there is a focus on the microbial intrusions for remediating sites by accumulated pesticides, heavy metals, polyaromatic hydrocarbons, and other industrial effluents. Moreover, the potentiality and key mechanisms used by microorganisms for sustainable environmental management and their prospects are also considered in this new release. The term syntrophy for nutritional interdependence is often used in microbiology to describe the symbiotic relationship between bacterial species.

Understanding such interactions can be of considerable interest when we come to manipulate microbes to our own benefit, such as by disrupting pathogenic communities with antibiotics or by promoting efficiency in communities that produce energy or break down waste. Summarizes and reviews possible microbial applications for eco-industrial sustainability Includes a wide spectrum of experimental and theoretical contributions from eminent researchers in the field Focuses on microbial intrusions for remediating sites and other industrial effluents

APC Loving Our Environment - Class 5 - Mrs. Sudesh Singh

'Loving Our Environment' series for classes 3 to 5 has been written in compliance with the latest syllabus as presented by the NCERT. The series is learner-friendly and has been designed with an objective to create social awareness in the students, in a stimulating and enjoyable manner. The lessons have been presented in a simple and explicit language to facilitate comprehension. At the end of each lesson a brief summary has been provided for an easy recap. The exercises evoke and build on their logical thinking and analytical skills. They also foster in the learners an initiative to do activities and projects, provided at the end of the lesson.

Environmental Policy in India - Natalia Ciecierska-Holmes 2019-12-18

This book systematically introduces historical trajectories and dynamics of environmental policy and governance in India. Following the features of environmental policy in India as outlined in Chapter 1, subsequent chapters explore domestic and international factors that shape environmental policy in the country. The chapters examine the interplay between governmental and non-governmental actors, and the influence of social mobilisation and institutions on environmental policy and governance. Analysing various policy trajectories, the chapters identify and explore five central environmental policy subsystems: forests, water, climate, energy and city development. The authors drill down into the social, economic, political and ecological dimensions of each system, shedding light on why striking a balance between national economic growth and environmental sustainability is so challenging. Drawing on political science theories of policy processes and related theoretical concepts, this innovative edited volume will be of great interest to students and scholars of environmental policy and politics and South Asian studies more broadly.