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Water Pollution Arvind Kumar 2004 Contributed articles; with reference to India.

Forestry: A Subjective Guide for IFS Aspirants K.T. Parthiban 2016-01-01 This comprehensive text book on subjective forestry which is entitled as Forestry – A Subjective guide for IFS Aspirants to cater the needs of graduates of Forestry and other science and engineering graduates aspiring for the Indian Forest Service. The text is prepared in a form which is easy to follow and the main focus is on enabling the reader to understand and conceptualize the various aspects of Forestry to succeed in competitive examinations.

Ecosystem-Based Adaptation Arvind Kumar 2022-02-25 Ecosystem-Based Adaptation: Approaches to Sustainable Management of Aquatic Resources presents a close examination of the role of ecosystem-based adaptation in managing river basins, aquifers, flood plains and their vegetation to provide water storage and flood regulation. Furthermore, the book explores improved ecosystem-based services for managing floods, conservation of water and its resources (including watersheds), avoiding water scarcity, and ensuring long-term water security planning, all in the context of sustainable development goals. This book will help scientists pave the way for easy implementation of sustainable development goals, ensuring a secure and sustainable future. Presents information in an easy-to-follow manner using tables, figures and graphs where applicable, along with case studies from all continents Provides a reference for experts to use as an authoritative source to support environmental action and regulation Delineates the role of ecosystem-based adaptation in sustainable management and in the restoration of watershed forests and wetlands

A Textbook of Environmental Chemistry and Pollution Control SS Dara | DD Mishra 2006 The Progress and Prosperity of any country mainly depend upon the quality of its human resource, which in turn, depends upon the quality of its educational system. Higher and technical education, being at the apex of the pyramid of education, play a major role in the overall development of any country. One of the major drawbacks of the higher and technical education in our country, is the palpable gap between the world of learning and the world of work.

Ecology, Environment & Conservation 2007

Air Pollution Abstracts United States. Environmental Protection Agency 1976

Environment and Health Arvind Kumar 2004 57 Research Articles By Specialists In The Area That Highlight Hazards Like Biodegradation, Toxicological Affects, Heavy Metal Pollution, Effects Of Nitrogen And Farmyard Manners, Noise Pollution, Influence Of Soil Moisture, Weeds, Saline Soil Etc. Useful For Students, Teachers And Everyone Involved In The Subject.

Green Management Agarwal 2005 It Is About Green Management - Covers - Various Aspects - Trade, Aid, Debt, Politics - Tourism - Feminism - Labelling - Provides - In Other Words Various Facets Of Green Management.

Surfactants from Renewable Raw Materials Divya Bajpai Tripathy 2021-12-22 Surfactants are often completely invisible to us and yet they are present in almost every chemical that we use in our daily life. They are found in toothpastes, cosmetics, sunscreens, mayonnaise, detergents, and an array of cleaning products. Traditional surfactants are known to have adverse environmental impacts spurring research into eco-friendly and cost-effective surfactants from renewable resources. *Surfactants from Renewable Raw Materials* examines the class of surfactants synthesized using plant-based raw materials detailing their properties, applications, bioavailability, and biodegradability. The concluding chapter reviews patent activity over the last decade. Additional features include: Addresses the tremendous variation found in the raw materials used to synthesize commercially available surfactants. Explores the selection of raw materials based upon the desired hydrophobic group or hydrophilic group to be incorporated into the product. Examines the characteristics and medicinal applications of pulmonary surfactants in preterm babies as well as their probable contribution in COVID-19 Discusses the biodegradability of surfactants to assist with the determination of truly green surfactants. This comprehensive reference will prove indispensable for professional and academic researchers creating or working with bio-based surfactants.

Vermis & Vermitechnology Arvind Kumar 2005 Earthworms (Vermis) have long been described as the intestine of the earth, friends of farmers and so on, because of their manifold functions in the soil. Recently, earthworms have come to be recognized as one of the bioreactors due to their ability to degrade organic waste materials into available vermin-compost and the technology is being described as vermiculture technology or Vermitechnology. Due to population explosion beyond the limit and rapid urbanization, total agricultural land area is decreasing day by day. These are directly affecting the crop production. Although due to the usage of various chemical fertilizers and pesticides, yield of crop production have been increased multi-folds, but their excessive and imbalance usage causing tremendous alterations in natural soil environment. In order to cope with this trenchant problem, the vermitechnology has become the most suitable remedial device of the day. Therefore, the present book entitled *Vermis & Vermitechnology* has been edited to make the low cost vermitechnology a grand success among the farmers, researchers and academicians.

Biodiversity & Conservation Arvind Kumar 2005 Papers In This Volume, Written By Biologists, Are Concerned With Biodiversity Losses.

Industrial Pollution & Management Arvind Kumar 2004 Conflicts 41 Research Papers Relating To Current Environmental Problems Caused By Industrial Pollution And Then Possible Remedies. Useful For Students/Teachers And Researchers In The Field Of Environmental Science.

Environmental Pollution and Agriculture Arvind Kumar 2002 Collection of articles by various authors; with reference to India.

Global Initiatives for Waste Reduction and Cutting Food Loss Aparna B Gunjal 2019-01-18 "This book

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examines the methods of global initiatives for reducing waste reduction and cutting food loss. It also explores the idea of effective management of food waste"--

Fishery Management Arvind Kumar 2004 A Compilation Of Around 50 Articles That Release To Ichthyology And Fisheries Science. The Articles Are Authored By Experts And Will Be Useful For Students, Teachers, Researchers, Scientist. Fish Biologists.

Science Education in Context Richard K. Coll 2019-02-18 This book presents an international perspective of the influence of educational context on science education. The focus is on the interactions between curriculum development and implementation, particularly in non-Western and non-English-speaking contexts (i.e., outside the UK, USA, Australia, NZ, etc.).

Environmental Chemistry Stanley E Manahan 2017-02-24 With clear explanations, real-world examples and updated questions and answers, the tenth edition of Environmental Chemistry emphasizes the concepts essential to the practice of environmental science, technology and chemistry while introducing the newest innovations in the field. The author follows the general format and organization popular in preceding editions, including an approach based upon the five environmental spheres and the relationship of environmental chemistry to the key concepts of sustainability, industrial ecology and green chemistry. This readily adaptable text has been revamped to emphasize important topics such as the world water crisis. It details global climate change to a greater degree than previous editions, underlining the importance of abundant renewable energy in minimizing human influences on climate. Environmental Chemistry is designed for a wide range of graduate and undergraduate courses in environmental chemistry, environmental science and sustainability as well as serving as a general reference work for professionals in the environmental sciences and engineering.

Environment, Pollution and Management Arvind Kumar 2003

Environment and Toxicology Arvind Kumar 2005 In Indian context.

Air Pollution Abstracts United States. Environmental Protection Agency. Air Pollution Control Office 1976

A Text Book Of Environmental Science Arvind Kumar 2004

Environmental Science Y.K. Singh 2006-01-01

Environmental Biology Arvind Kumar 2005 In Indian context.

Soil Contamination and Remediation Effects on the Structure and Activity of Soil Microbial Communities M.V. Bindu 2016-08 Soil can be defined as the space time continuum forming the upper part of the earth's crust. It is a natural body comprised of solid, liquid and gases that occur on the land surface. Joffe (1949) defined soil as a natural body differentiated into horizons of mineral and organic constituents usually unconsolidated of variable depth, which differs from the parent material below in morphology, physical properties and constitution, chemical properties and composition, and biological characteristics. Soil is one of the most fundamental resources for sustainability and survival. It is one of the most important assets to protect and pass on to future generations. Soil contamination due to anthropogenic and natural sources is increasing day by day because of increasing population, industrialization, and urbanization. Soil is the receptor of many contaminants from various sources. Contamination decreases the quality of the soil and adversely affects soil organisms. For this study, soil

samples from thirteen locations contaminated from agricultural, industrial, and organic sources spread over the districts of Alappuzha and Kottayam in Kerala in the south west coast area of India were analyzed to study the changes in soil characteristics and its influence on soil microbial communities and their activities.

Concepts of Biophysics Arvind Kumar 2005

Atmospheric Ozone A Microview Johnson Jeyakumar Vijayalakshmi KartharinalPunithavathy

Microbial Pollution Arvind Kumar 2005

Molecular Breeding for Rice Abiotic Stress Tolerance and Nutritional Quality Mohammad Anwar Hossain 2021-03-22 Presents the latest knowledge of improving the stress tolerance, yield, and quality of rice crops One of the most important cereal crops, rice provides food to more than half of the world population. Various abiotic stresses—currently impacting an estimated 60% of crop yields—are projected to increase in severity and frequency due to climate change. In light of the threat of global food grain insecurity, interest in molecular rice breeding has intensified in recent years. Progress has been made, but there remains an urgent need to develop stress-tolerant, bio-fortified rice varieties that provide consistent and high-quality yields under both stress and non-stress conditions. Molecular Breeding for Rice Abiotic Stress Tolerance and Nutritional Quality is the first book to provide comprehensive and up-to-date coverage of this critical topic, containing the physiological, biochemical, and molecular information required to develop effective engineering strategies for enhancing rice yield. Authoritative and in-depth chapters examine the molecular and genetic bases of abiotic stress tolerance, discuss yield and quality improvement of rice, and explore new approaches to better utilize natural resources through modern breeding. Topics Include rice adaptation to climate change, enriching rice yields under low phosphorus and light intensity, increasing iron, zinc, vitamin and antioxidant content, and improving tolerance to salinity, drought, heat, cold, submergence, heavy metals and Ultraviolet-B radiation. This important resource: Contains the latest scientific information on a wide range of topics central to molecular breeding for rice Provides timely coverage molecular breeding for improving abiotic stress tolerance, bioavailability of essential micronutrients, and crop productivity through biotechnological methods Features detailed chapters written by internationally-recognized experts in the field Discusses recent progress and future directions in molecular breeding strategies and research Molecular Breeding for Rice Abiotic Stress Tolerance and Nutritional Quality is required reading for rice researchers, agriculturists, and agribusiness professionals, and the ideal text for instructors and students in molecular plant breeding, abiotic stress tolerance, environmental science, and plant physiology, biochemistry, molecular biology, and biotechnology.

Environment & Agriculture Arvind Kumar 2005 The Book Comprises Of Recent Research Articles Of Eminent Scientists Focusing On Appropriate Use Of Pesticides And Fertilizers In Order To Maintain Human Health, Ecological Balance And Environment-Friendly Sustainable Development.

Fundamentals of Limnology Arvind Kumar 2005 In Indian context.

Aquatic Ecosystems Arvind Kumar 2003 In the Indian context; contributed articles.

Abatement of Environmental Pollutants Pardeep Singh 2019-08-27 Abatement of Environmental Pollutants: Trends and Strategies addresses new technologies and provides strategies for environmental scientists, microbiologists and biotechnologists to help solve problems associated with the treatment of

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industrial wastewater. The book helps readers solve pollution challenges using microorganisms in bioremediation technologies, including discussions on global technologies that have been adopted for the treatment of industrial wastewater and sections on the lack of proper management. Moreover, limited space, more stringent waste disposal regulations and public consciousness have made the present techniques expensive and impractical. Therefore, there is an urgent need to develop sustainable management technologies for industries and municipalities. To remove the damaging effect of organic pollutants on the environment, various new technologies for their degradation have been recently discovered. Covers bioremediation of petrochemical pollutants, such as Benzene, Toluene, Xylene, Ethyl Benzene, and phenolic compound Includes discussions on genetic engineering microbes and their potential in pollution abatement Contains information on plant growth promoting bacteria and their role in environment management

Halophytes and Climate Change Mirza Hasanuzzaman 2019-02-14 This book contains current knowledge and the most recent developments in the field of halophyte biology, ecology, and potential uses. Halophytes are characterised as plants that can survive and complete their life cycle in highly saline environments. This book explores the adaptive mechanisms and special features of halophytes that allow them to grow in environments that are unsuitable for conventional crops and considers their role as a source of food, fuel, fodder, fibre, essential oils, and medicines. Halophytes and Climate Change includes coverage of: - Special morphological, anatomical, and physiological features of halophytes - Ion accumulation patterns and homeostasis in halophytes - Potential use of halophytes in the remediation of saline soil - Growth and physiological response and tolerance to toxicity and drought - Mangrove ecology, physiology, and adaptation Written by a team of international authors and presented in full colour, this book is an essential resource for researchers in the fields of plant physiology, ecology, soil science, environmental science, botany, and agriculture.

Cloud-Based Big Data Analytics in Vehicular Ad-Hoc Networks Rao, Ram Shringar 2020-09-11 Vehicular traffic congestion and accidents remain universal issues in today's world. Due to the continued growth in the use of vehicles, optimizing traffic management operations is an immense challenge. To reduce the number of traffic accidents, improve the performance of transportation systems, enhance road safety, and protect the environment, vehicular ad-hoc networks have been introduced. Current developments in wireless communication, computing paradigms, big data, and cloud computing enable the enhancement of these networks, equipped with wireless communication capabilities and high-performance processing tools. *Cloud-Based Big Data Analytics in Vehicular Ad-Hoc Networks* is a pivotal reference source that provides vital research on cloud and data analytic applications in intelligent transportation systems. While highlighting topics such as location routing, accident detection, and data warehousing, this publication addresses future challenges in vehicular ad-hoc networks and presents viable solutions. This book is ideally designed for researchers, computer scientists, engineers, automobile industry professionals, IT practitioners, academicians, and students seeking current research on cloud computing models in vehicular networks.

Agro-Environmental Sustainability Jay Shankar Singh 2017-02-14 This two-volume work is a testament to the increasing interest in the role of microbes in sustainable agriculture and food security. Advances in microbial technologies are explored in chapters dealing with topics such as carbon sequestration, soil fertility management, sustainable crop production, and microbial signaling networks. Volume I is a collection of research findings that invites readers to examine the application of microbes in reinstating degraded ecosystems and also in establishing sustainable croplands. Highly readable entries attempt to close the knowledge gap between soil microbial associations and sustainable agriculture. An increase in the global population with changing climate is leading to environments of various abiotic and

biotic stresses for agricultural crops. It therefore becomes important to identify the techniques to improve soil fertility and function using different microbial groups such as actinobacteria, microalgae, fluorescent pseudomonads and cyanobacterial systems. These are examined in this volume in greater detail. This work is a significant contribution to research in this increasingly important discipline, and will appeal to researchers in microbiology, agriculture, environmental sciences, and soil and crop sciences.

Advances in Life Sciences Arvind Kumar 2004 Pleads For Science To Be Studied With An Integrated Approach. Presents 75 Research Papers In Different Fields Of Science-The Aims Is To Help The Scholars To Overtake Research, Training And Consultancy In Proverty Areas Of Science And Technology And Evolve Relevant Data Bases, Methodologies And Policy Frameworks In The Science And Technology Areas.

Ubiquitous Machine Learning and Its Applications Kumar, Pradeep 2017-03-03 Constant improvements in technological applications have allowed for more opportunities to develop automated systems. This not only leads to higher success in smart data analysis, but also ensures that technological progression will continue. Ubiquitous Machine Learning and its Applications is a pivotal reference source for the latest research on the issues and challenges machines face in the new millennium. Featuring extensive coverage on relevant areas such as computational advertising, software engineering, and bioinformatics, this publication is an ideal resource for academicians, graduate students, engineering professionals, and researchers interested in discovering how they can apply these advancements to various disciplines.

Water Pollution P. K. Goel 2006-01-01 Water Pollution: Causes, Effects And Control Is A Book Providing Comprehensive Information On The Fundamentals And Latest Developments In The Field Of Water Pollution.The Book Is Divided Into 28 Chapters Covering Almost All The Aspect Of Water Pollution Including Water Resources And General Properties Of Water; History Of Water Pollution And Legislation; Origin, Sources And Effects Of Pollutants; Bioaccumulation And Biomagnification; Toxicity Testing And Interaction Of Toxicities In Combination; Water Quality Standards; Biomonitoring Of Water Pollution; Bacteriological Examination And Purification Of Drinking Water; Monitoring And Control Of Pollution In Lakes, Rivers, Estuaries And Coastal Waters; Physical And Biological Structure Of Aquatic Systems; And Structure, Properties And Uses Of Water.Some Important Topics Like Eutrophication, Organic Pollution, Oil Pollution And Thermal Pollution Have Been Discussed In Detail. The Water Pollution Caused By Pesticides, Heavy Metals, Radio Nuclides And Toxic Organics And Inorganic Along With The Water Quality Problems Associated With Water-Borne Pathogens And Nuisance Algae Have Also Been Dealt With Extensively.The Book Covers In Detail The Flow Measurement And Characterization Of Waste Waters In Industries, And Control Of Water Pollution By Employing Various Techniques For Treatment Of Biological And Nonbiological Wastes. The Considerations For Recycling And Utilization Of Waste Waters Have Also Found A Place In The Book. Special Topic Has Also Been Given On Water Pollution Scenario And Water Related Policies And Programmes In India.The Book Shall Be Of Immediate Interest To The Students Of Environmental Science, Life Science And Social Sciences Both At Undergraduate And Postgraduate Levels. People From A Wide Variety Of Other Disciplines Like Civil, Chemical And Environmental Engineering; Pollution Control Authorities; Industries; And Practicing Engineers, Consultants And Researchers Will Also Find The Book Of Great Interest.

Environmental Contamination and Bioreclamation Arvind Kumar 2004 Collects 43 Research Articles Relating To Environmental Pollution And The Steps Required To Be Taken For Their Eradication. Useful For Students, Academics, Researchers Etc. In Short For All Those Interested In Conservation Of Non-Renewable Resources For Future Generations.

Bioinformatics Shalini Suri 2006 With the advent of the new millennium, the scientific community marked a significant milestone in the study of bioinformation. This book attempts to keep up with the quick pace of change in this field, reinforcing concepts that have stood the test of time while making the reader aware of new approaches and algorithms that have emerged. This book is an essential reading for researchers, instructors, and students of all levels in molecular biology and bioinformatics, as well as for investigators involved in genomics, clinical research, proteomics, and computational biology.