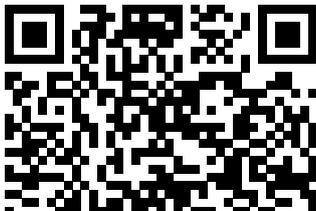

Environmental Studies Kaushik

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An Economist in the Real World Elsevier '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.

APC Loving Our Environment - Class 4 Springer

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.

Living with Oil and Coal Springer
Nature

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.

Smartonomics Springer

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 (As Per PTU Syllabus)
(Common To All Branches) Springer

This book brings to readers thirteen chapters with contributions to the benefits of using IoT and Cloud Computing to agro-ecosystems from a multi-disciplinary perspective. IoT and Cloud systems have prompted the development of a Cloud digital ecosystem referred to as Cloud-to-thing continuum computing. The key success of IoT computing and the Cloud digital ecosystem is that IoT can be integrated seamlessly with the physical environment and therefore has the potential to leverage innovative services in agro-

ecosystems. Areas such as ecological monitoring, agriculture, and biodiversity constitute a large area of potential application of IoT and Cloud technologies. In contrast to traditional agriculture systems that have employed aggressive policies to increase productivity, new agro-ecosystems aim to increase productivity but also achieve efficiency and competitiveness in modern sustainable agriculture and contribute, more broadly, to the green economy and sustainable food-chain industry.

Fundamental research as well as concrete applications from various real-life scenarios, such as smart farming, precision agriculture, green agriculture, sustainable livestock and sow farming, climate threat, and societal and environmental impacts, is presented. Research issues and challenges are also discussed towards envisioning efficient and scalable solutions to

agro-ecosystems based on IoT and Cloud technologies. Our fundamental belief is that we can collectively trigger a new revolution that will transition agriculture into an equitable system that not only feeds the world, but also contributes to mitigating the climate change and biodiversity crises that our historical actions have triggered.

Assessing the Antarctic Environment from a Climate Change Perspective Routledge

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.

Lively Capital Elsevier

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.

Polymers and Composites Manufacturing New Age International

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 Electrical Connectors SAGE Publications India

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.

Environmental Science And Engineering (anna University) Elsevier

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.

Prelude to Political Economy Academic Press
Capacitive pressure sensor based in chewing gum composites quarts filler / Fabiola da S. Maranh ã o.

Creating Inclusive Schools Avichal Publishing Company

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.

[Nanofabrication for Smart Nanosensor](#)

[Applications](#) Springer

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.

Coatings CRC Press

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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.

The Genetics of Cattle, 2nd Edition
Springer Nature

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.

Multidisciplinary Science and Advanced Technologies John Wiley & Sons
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

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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.

Microbial Nanobionics CRC Press
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.

Paryavaran Adhyayan Walter de Gruyter GmbH & Co KG
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

COVID-19 in the Environment Walter de Gruyter GmbH & Co KG

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.

Environmental Policy in India Academic Press

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.