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## Textbook of Environmental Studies for Undergraduate Courses

**Universities Press** 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.

## Fundamentals of Environmental Studies

**Cambridge University Press** Fundamentals of Environmental Studies is taught as a compulsory paper to first-year undergraduate students across major technical universities in India. This book introduces the fundamental principles and concepts of environmental science, ecology and related interdisciplinary subjects, such as policy, law, pollution control, economics and natural resource management. It covers a wide range of topics and issues including biodiversity, global warming, acid rain, ozone layer depletion, nuclear accidents, nuclear holocaust, disaster management, manipulation of various natural resources including water, land, forests, food and mineral resources, and the problems associated with natural resource management. It also analyzes different types of ecosystems, biochemical cycles and laws of thermodynamics and provides easy-to-understand examples. In addition, the book offers separate chapters on various types of environmental pollution and waste management, including waste water treatment, solid waste management and green management.

## Environmental Studies for Undergraduate Courses

### As Per UGC Notified Syllabus

**Unicorn Books** This book Environmental Studies for Undergraduate Courses follows specifically and strictly designed model syllabus prescribed by the UGC for undergraduate courses of higher education in India. the textbook has been divided into eight units. the first unit covers definition, scope and importance of environmental studies. Second unit explains the renewal and non-renewal resources. Next unit introduces the reader to the types of ecosystems, and food chains. Fourth unit describes biodiversity and its conservation.

the fifth unit elaborates sources of pollution, solid waste management, and disaster management. Sixth unit discusses sustainable development, urban problems, climate & global warming, and legislative environmental Acts. Human welfare and environment form the next unit. Fieldwork relating to study of simple ecosystems forms the eighth and the last unit. the salient features of the book include a simple explanation of the subject, relevant case studies, environmental quotes and interesting facts.

## Oil, Water, and Climate

### An Introduction

**Cambridge University Press** Today's oil and gas are at record prices, whilst global energy demand is increasing from population and economic development pressures. Climate change, resulting in large part from the burning of fossil fuels, is exacerbating the impacts of the accelerated exploitation of our natural resources. Therefore, anxieties over energy, water, and climate security are at an all-time high. Global action is needed now in order to address this set of urgent challenges and to avoid putting the future of our civilization at risk. This book examines the powerful interconnections that link energy, water, climate and population, exploring viable options in addressing these issues collectively. Difficult political decisions and major reforms in resource governance, policies, market forces, and use are needed and this book provides excellent introductory material to begin to understand and to address these problems.

## Technology and Global Change

**Cambridge University Press** This is the first book to comprehensibly describe how technology has shaped society and the environment over the last 200 years. It will be useful for researchers, as a textbook for graduate students, for people engaged in long-term policy planning in industry and government, for environmental activists, and for the wider public interested in history, technology, or environmental issues.

# Text Book of Environmental Studies

**S. Chand Publishing** For undergraduate Students. This textbook is simple, comprehensible, illustrated and documented account of the state of environment, wildlife and natural resources today. The book covers all aspects of the subject which students of graduate classes should be ware of not for their own sake but for the sake of forging a pattern of right conduct towards the nature, natural resources and the environment.

## Environmental ScienceBites

**The Ohio State University** This book was written by undergraduate students at The Ohio State University (OSU) who were enrolled in the class Introduction to Environmental Science. The chapters describe some of Earth's major environmental challenges and discuss ways that humans are using cutting-edge science and engineering to provide sustainable solutions to these problems. Topics are as diverse as the students, who represent virtually every department, school and college at OSU. The environmental issue that is described in each chapter is particularly important to the author, who hopes that their story will serve as inspiration to protect Earth for all life.

# Textbook for Environmental Studies

## Environmental Science Book

**Educreation Publishing** This textbook is written to bring about an awareness of a variety of environmental concerns. It covers a wide range of topics and issues about environmental science. It attempts to create a pro-environmental attitude and a behavioral pattern in society that is based on creating sustainable lifestyles. But a textbook can hardly be expected to achieve a total behavioral change in society. Conservation is best brought about through creating a love for nature.

# Environmental Systems and Societies

Equip your learners with the skills central to success. Enabling you to build, extend and perfect the skills crucial to achievement, this text strengthens performance in all areas of assessment. With a focus on practical work that accessibly connects material to real, global issues, it develops a thorough foundation of skills that drive performance.

# Environment, Politics and Society

**Emerald Group Publishing** Human activities and decision-making have enormous impacts on the environment. This volume engages in critical conversations on these issues and how their inter-connectedness and outcomes shape the natural environment and human activity.

# Global Resources and the Environment

An illustrated overview of the sustainability of natural resources and the social and environmental issues surrounding their distribution and demand.

# The Evolution of Affordable Content Efforts in Higher Education

# Programs, Case Studies, and Examples

The Evolution of Affordable Content Efforts in the Higher Education Environment: Programs, Case Studies, and Examples provides both inspiration and guidance for those beginning work on affordable content and evidence of the growth that has occurred in this arena over the last decade. While some institutions have been providing students affordable content options for over 100 years, many others have found the need to launch new programs in response to the escalating costs of higher education and the impact that has on student learning. This book provides examples from different types and sizes of institutions and includes voices from a wide range

of contributors including faculty, instructional designers, academic technologists, librarians, bookstore staff, and more. The Evolution of Affordable Content demonstrates the range of affordable content options that are possible today-from openly licensed content to library licensed materials and all inclusive purchase models to institution-wide student textbook rental models.

## A Research Agenda for Environmental Geopolitics

**Edward Elgar Publishing** Challenging the mainstream view of the environment as either threatening or valuable, this book considers how geographic knowledge can be applied to offer a more nuanced understanding. Framed within geopolitics and using a range of methodologies, the chapters encapsulate different approaches to demonstrate how selective forms of knowledge, measurement, and spatial focus both embody and stabilize power, shaping how people perceive and respond to changing features of human-environment interactions.

## Machine Learning Methods in the Environmental Sciences

### Neural Networks and Kernels

**Cambridge University Press** A graduate textbook that provides a unified treatment of machine learning methods and their applications in the environmental sciences.

## Research Methodology in the Built Environment

### A Selection of Case Studies

**Routledge** Built environment students are not always familiar with the range of different research approaches they could be using for their projects. Whether you are undertaking a postgraduate doctoral programme or facing an undergraduate or masters dissertation, this book provides general advice, as well as 13 detailed case studies from 16 universities in 7 countries, to help you get to grips with

quantitative and qualitative methods, mixed methods of data collection, action research, and more.

## Coastal Processes with Engineering Applications

**Cambridge University Press** Text on coastal engineering and oceanography covering theory and applications intended to mitigate shoreline erosion.

## Environmental Contamination and Remediation

**Cambridge Scholars Publishing** This book provides an account of the major environmental contaminations present today, and offers detailed insights into their potential remediation through bio-based solutions. Bringing together the work of various international experts in this field, it contains comprehensive reviews on the mechanisms of bioremediation. Moreover, the book discusses the strategies by which bacteria and plants help in the decontamination of environmental pollutants. As such, it represents a valuable resource for a wide audience, including environmental scientists, biochemists, soil scientists, botanists, agronomists and molecular biologists.

## Urban Environments in Africa

## A Critical Analysis of Environmental Politics

**Policy Press** Explores the impact of Africa's rapidly growing urban population on local resources and the environment, acknowledging the clash between Western focus on sustainable development and the lived realities of residents of often poor, informal settlements.

## The Psychology of Environmental Law

**NYU Press** Offers psychological insights into how people perceive, respond to, value, and make decisions about the environment. Environmental law may seem a strange space to seek insights from psychology. Psychology, after all, seeks to illuminate the interior of the human mind, while environmental law is fundamentally concerned with the exterior surroundings—the environment—in which people live. Yet psychology is a crucial, undervalued factor in how laws shape people's interactions with the environment. Psychology

can offer environmental law a rich, empirically informed account of why, when, and how people act in ways that affect the environment—which can then be used to more effectively pursue specific policy goals. When environmental law fails to incorporate insights from psychology, it risks misunderstanding and mispredicting human behaviors that may injure or otherwise affect the environment, and misprescribing legal tools to shape or mitigate those behaviors. The Psychology of Environmental Law provides key insights regarding how psychology can inform, explain, and improve how environmental law operates. It offers concrete analyses of the theoretical and practical payoffs in pollution control, ecosystem management, and climate change law and policy when psychological insights are taken into account.

## The Biodiversity of India

**Mapin Publishing Pvt Ltd** The CD-ROM and accompanying booklet provides a fascinating experience in biodiversity.

## Guano and the Opening of the Pacific World

## A Global Ecological History

**Cambridge University Press** This book traces the history of bird guano, demonstrating how this unique commodity helped unite the Pacific Basin with the industrialized world.

## Towards the Environmental Minimum

## Environmental Protection through Human Rights

**Cambridge University Press** A practical human rights approach strengthens environmental protection without requiring radical departures from established protection regimes and legal principles.

## Latin America in Colonial Times

**Cambridge University Press** This second edition is a concise history of Latin America from the Aztecs and Incas to Independence.

## Fundamentals of Materials for Energy and Environmental Sustainability

**Cambridge University Press** How will we meet rising energy demands? What are our options? Are there viable long-term solutions for the future? Learn the fundamental physical, chemical and materials science at the heart of: • Renewable/non-renewable energy sources • Future transportation systems • Energy efficiency • Energy storage Whether you are a student taking an energy course or a newcomer to the field, this textbook will help you understand critical relationships between the environment, energy and sustainability. Leading experts provide comprehensive coverage of each topic, bringing together diverse subject matter by integrating theory with engaging insights. Each chapter includes helpful features to aid understanding, including a historical overview to provide context, suggested further reading and questions for discussion. Every subject is beautifully illustrated and brought to life with full color images and color-coded sections for easy browsing, making this a complete educational package. Fundamentals of Materials for Energy and Environmental Sustainability will enable today's scientists and educate future generations.

## The Art of Failure

## An Essay on the Pain of Playing Video Games

**MIT Press** Argues that video games are not fun but actually lead to feelings of frustration and incompetence and that video games are one of the few mediums that allow us to experience and experiment with failure.

# Tropical Montane Cloud Forests

**Springer Science & Business Media** Until relatively recently the valuable tropical montane cloud forests (hereafter usually referred to as TMCFs) of the world had scarcely come under the assaults experienced by the downslope montane and lowland forests. TMCFs are not hospitable environments for human occupation, and their remoteness (except in places near Andean high mountain settlements and in the Ethiopian Highlands) and difficult terrain have given them de facto protection. The adjacent upper montane rain forests have indeed been under assault for timber, fuelwood, and for conversion to grazing and agriculture for many decades, even centuries in the Andes, but true cloud forest has only come under exploitation as these lower elevational resources have disappeared. They have also been "nibbled" at from above where there have been alpine grasslands under grazing pressure. Increasingly now, however, these cloud forest ecosystems are being fragmented, reduced, and disturbed at an alarming rate. It is now becoming recognized that steps must be taken rapidly to increase our understanding of TMCF and to achieve their conservation, because: their water-capture function is extremely important to society; • their species endemism is high; they serve as refugia for endangered species being marginalized in these environments by increasingly transformed lower elevation ecosystems; they are relatively little studied; yet, their value to science is extremely high; they have low resilience to disturbance; vii viii Preface and many other reasons, which will be discussed subsequently in this publication.

# Environmental Management for Cambridge O Level and IGCSE Student Book

Prepare your students for success and provide a well-rounded learning experience. This resource emphasizes critical and analytical thinking skills, increasing students' ability to reason from an international perspective. Matched to the latest Cambridge syllabus, this text prepares students for exams and beyond.

# Surveys in Modern Mathematics

**Cambridge University Press** This collection of articles from the Independent University of Moscow is derived from the Globus seminars held there. They are given by world authorities, from Russia and elsewhere, in various areas of mathematics and are

designed to introduce graduate students to some of the most dynamic areas of mathematical research. The seminars aim to be informal, wide-ranging and forward-looking, getting across the ideas and concepts rather than formal proofs, and this carries over to the articles here. Topics covered range from computational complexity, algebraic geometry, dynamics, through to number theory and quantum groups. The volume as a whole is a fascinating and exciting overview of contemporary mathematics.

## Perspectives in Environmental Studies

**New Age International** 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 Analyzed In A Simple Manner Strictly As Per The Module Syllabus Designed By The Ugc 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.

## Astrophysics for Physicists

**Cambridge University Press** Designed for teaching astrophysics to physics students at advanced undergraduate or beginning graduate level, this textbook also provides an overview of astrophysics for astrophysics graduate students, before they delve into more specialized volumes. Assuming background knowledge at the level of a physics major, the textbook develops astrophysics from the basics without requiring any previous study in astronomy or astrophysics. Physical concepts, mathematical derivations and observational data are combined in a balanced way to provide a unified treatment. Topics such as general relativity and plasma physics, which are not usually covered in physics courses but used extensively in astrophysics, are developed from first principles. While the emphasis is on developing the fundamentals thoroughly, recent important discoveries are highlighted at every stage.

# A Short Introduction to Climate Change

**Cambridge University Press** Provides a comprehensive, balanced and reader-friendly account of the developments in climate science over the past 250 years.

## The Far Right Today

**John Wiley & Sons** The far right is back with a vengeance. After several decades at the political margins, far-right politics has again taken center stage. Three of the world's largest democracies - Brazil, India, and the United States - now have a radical right leader, while far-right parties continue to increase their profile and support within Europe. In this timely book, leading global expert on political extremism Cas Mudde provides a concise overview of the fourth wave of postwar far-right politics, exploring its history, ideology, organization, causes, and consequences, as well as the responses available to civil society, party, and state actors to challenge its ideas and influence. What defines this current far-right renaissance, Mudde argues, is its mainstreaming and normalization within the contemporary political landscape. Challenging orthodox thinking on the relationship between conventional and far-right politics, Mudde offers a complex and insightful picture of one of the key political challenges of our time.

## Mathematics for Biological Scientists

**Garland Science** Mathematics for Biological Scientists is a new undergraduate textbook which covers the mathematics necessary for biology students to understand, interpret and discuss biological questions. The book's twelve chapters are organized into four themes. The first theme covers the basic concepts of mathematics in biology, discussing the mathematics used in biological quantities, processes and structures. The second theme, calculus, extends the language of mathematics to describe change. The third theme is probability and statistics, where the uncertainty and variation encountered in real biological data is described. The fourth theme is explored briefly in the final chapter of the book, which is to show how the 'tools' developed in the first few chapters are used within biology to develop models of biological processes. Mathematics for Biological Scientists fully integrates mathematics and biology with the use of colour illustrations and photographs to provide an engaging and informative approach to the subject of mathematics and statistics within biological science.

# Ecology and the Environment Perspectives from the Humanities

**Harvard Univ Ctr for the** "Examines ethical, religious, and aesthetic dimensions of the environment from several different disciplines related to the humanities including anthropology, literature, philosophy, religious studies, and history, with examples drawn from Confucianism, aboriginal Australia, Moby-Dick, liberal democracies, Ken Wilber, Joanna Macy, and Gary Snyder"--Provided by publisher.

## Geomorphology

# The Mechanics and Chemistry of Landscapes

**Cambridge University Press** Modern, quantitative, process-oriented approach to geomorphology and the role of Earth surface processes in shaping landforms, starting from basic principles.

## The Future of Nature

# Documents of Global Change

**Yale University Press** This anthology provides an historical overview of the scientific ideas behind environmental prediction and how, as predictions about environmental change have been taken more seriously and widely, they have affected politics, policy, and public perception. Through an array of texts and commentaries that examine the themes of progress, population, environment, biodiversity and sustainability from a global perspective, it explores the meaning of the future in the twenty-first century. Providing access and reference points to the origins and development of key disciplines and methods, it will encourage policy makers, professionals, and students to reflect on the roots of their own theories and practices.

# Ecology

## Principles and Applications

**Cambridge University Press** This is a comprehensive textbook for A-level students and first-year undergraduates taking courses in biology, geography and Earth sciences.

## Understanding the Earth System

## Global Change Science for Application

**Cambridge University Press** Explaining the what, the how and the why of climate science, this multidisciplinary new book provides a review of research from the last decade, illustrated with cutting-edge data and observations. A key focus is the development of analysis tools that can be used to demonstrate options for mitigating and adapting to increasing climate risks. Emphasis is given to the importance of Earth system feedback mechanisms and the role of the biosphere. The book explains advances in modelling, process understanding and observations, and the development of consistent and coherent studies of past, present and 'possible' climates. This highly illustrated, data-rich book is written by leading scientists involved in QUEST, a major UK-led research programme. It forms a concise and up-to-date reference for academic researchers or students in the fields of climatology, Earth system science and ecology, and also a vital resource for professionals and policymakers working on any aspect of global change.

## Surroundings

## A History of Environments and Environmentalisms

"The English word "environment" dates to the mid-nineteenth century, and the concept that it was invented to describe is not much older. Only since the late eighteenth century, and only in certain contexts, has it become common to believe that life can best be

explained in environmental terms. Surroundings is the first full history of the concept - one that shows how it became compelling to particular communities of people. Today we confront the legacies of this long history, which the author argues has made it difficult to speak coherently and persuasively about questions of environmental justice and equity. The history recounted in Surrounded can help us better understand why we find ourselves in this predicament and what we might do about it. For it uncovers not only the diversity of forms that environmentalism has taken in the past but how paying attention them can open our eyes to the promising new varieties of environmentalism that are emerging today"--

## The World Book Encyclopedia

An encyclopedia designed especially to meet the needs of elementary, junior high, and senior high school students.