

Wetlands Of Kerala Ministry Of Environment Forest And

The thoroughly Revised & Updated 3rd Edition of the book "The Geography Compendium" has been prepared with enormous efforts for all IAS aspirants, State PCS and other competitive exams. The book is prepared on the concept "Latest Information - Authentic Data". The book is divided into 10 chapters followed by 2 levels of exercises with 1000+ Simple MCQs & statement based MCQs. The book not only covers 100% syllabus but is also covered with Mind Maps, Infographics, Charts, Tables and latest exam pattern MCQs. The emphasis of the book has been on conceptual understanding and better retention which are important from the point of view of the exam. The book captures most of the important questions with explanations of the past years of the IAS Prelim exam, CDS, NDA and other competitive exams distributed in the various chapters.

Wetland Science Perspectives From South Asia Springer

Anthropological studies of marine fishermen have explored immense diversity among fishing societies, and the management strategies of marine resources in the context of globalization and changing technologies deserve the utmost attention from researchers in an uncertain economy. In India, fishing communities belong to various different castes and religions. This book presents an anthropological study of Hindu marine fishermen in two neighboring fishing villages situated in the same coastal belt, but administered by two different state governments (Kerala and Pondicherry). It explores the ways in which state interventions influence the development paradigm of a marginalized society like marine fishermen, and discusses the distribution pattern of production systems and its significance at the household level. The book also considers the gendered forms of economic transformation in fishing due to declining marine resources, and technological and climate change. It also focuses on the role of women fish vendors in market spaces as instituted by their distribution and credit connections and the unique experiences of the development process through anxieties, compromises and survival in an uncertain economy. The book will be of interest to researchers, administrators and NGOs working for the inclusive development of marginalized communities sharing common property resources.

Holocene Climate Change and Environment presents detailed, diverse case studies from a range of environmental and geological regions on the Indian subcontinent which occupies the central part of the monsoon domain. This book examines Holocene events at different time intervals based on a new, high-resolution, multi-proxy records (pollen, spores, NPP, diatoms, grain size characteristics, total organic carbon, carbon/nitrogen ratio, stable isotopes) and other physical tools from all regions of India. It also covers new facilities in chronological study and luminescence dating, which have added a new dimension toward understanding the Holocene glacial retreats evolution of

coastal landforms, landscape dynamics and human evolution. Each chapter is presented with a unified structure for ease of access and application, including an introduction, geographic details, field work and sampling techniques, methods, results and discussion. This detailed examination of such an important region provides key insights in climate modeling and global prediction systems. Provides data and research from environmentally and geologically diverse regions across the Indian subcontinent Presents an integrated and interdisciplinary approach, including considerations of human impacts Features detailed case studies that include methods and data, allowing for applications related to research and global modeling

This book is an attempt to acknowledge the discipline 'wetland science' and to consolidate research findings, reviews and synthesis articles on different aspects of the wetlands in South Asia. The book presents 30 chapters by an international mix of experts in the field, who highlight and discuss diverse issues concerning wetlands in South Asia as case studies. The chapters are divided into different themes that represent broad issues of concern in a systematic manner keeping in mind students, researchers and general readers at large. The book introduces readers to the basics and theory of wetland science, supplemented by case studies and examples from the region. It also offers a valuable resource for graduate students and researchers in allied fields such as environmental studies, limnology, wildlife biology, aquatic biology, marine biology, and landscape ecology. To date the interdisciplinary field 'wetland science' is still rarely treated as a distinct discipline in its own right. Further, courses on wetland science aren't taught at any of the world's most prestigious universities; instead, the topics falling under this discipline are generally handled under the disciplines 'ecology' or under the extremely broad heading of 'environmental studies'. It is high time that 'Wetland Science' be acknowledged as an interdisciplinary sub-discipline, which calls for an attempt to consolidate its various subtopics and present them comprehensively. Thus, this book also serves as a reference base on wetlands and facilitates further discussions on specific issues involved in safeguarding a sustainable future for the wetland habitats of this region.

`This work is a very comprehensive and multidisciplinary study of Indian wetlands.... This is a valuable book for scholars and students in the field of environment, ecology, development, biology, geography, economics and anthropology... it is an invaluable resource for policy makers, environmentalists, industrialists and NGO's' - International Journal of Environmental Studies This volume is a comprehensive and multidisciplinary study of wetlands, which unites the natural science perspective with strong social concerns and economic and other approaches in order to design a practical national wetlands conservation strategy and action plan. The contributors argue that an important part of any long-term strategy for protecting wetlands must involve local users and incorporate traditional knowledge. The book makes a strong case for the coordinated management of wetlands and outlines various social, economic and ecological indicators which can be used to assess the diverse management needs of different wetlands.

This book, based on extensive international collaborative research, highlights the state-of-the-art design of "smart living" for metropolises, megacities, and metacities, as well as at the

community and neighbourhood level. Smart living is one of six main components of smart cities, the others being smart people, smart economy, smart environment, smart mobility and smart governance. Smart living in any smart city can only be designed and implemented with active roles for smart people and smart city government, and as a joint effort combining e-Democracy, e-Governance and ICT-IoT systems. In addition to using information and communication technologies, the Internet of Things, Internet of Governance (e-Governance) and Internet of People (e-Democracy), the design of smart living utilizes various domain-specific tools to achieve coordinated, effective and efficient management, development, and conservation, and to improve ecological, social, biophysical, psychological and economic well-being in an equitable manner without compromising the sustainability of development ecosystems and stakeholders. This book presents case studies covering more than 10 cities and centred on domain-specific smart living components. The book is issued in two volumes. and this volume focus on city studies.

Our environment has been greatly damaged due to pollution and over exploitation of natural resources by human beings. All the natural ecosystems have been damaged to a great extent. Restoration of these damages is becoming a priority and of environmental interest. Science and technology of restoration ecology is rapidly evolving. Restoration requires a holistic approach. Restoration technology is now available to redirect the damaged ecosystems to their near natural integrity. In this context, this book is the first of its kind in reviewing the different approaches undertaken to restore various damaged ecosystems. Scientists currently working in this field have contributed their work in the form of reviews, site-specific case studies, technology for bioremediation and biodegradation. The book will provide first hand information in this currently expanding field and will be helpful to biologists, environmental scientists, engineers, wastewater treatment experts, microbiologists and all those interested in the conservation and management of the environment.

India is endowed with varied topographical features, such as high mountains, extensive plateaus, and wide plains traversed by mighty rivers. Divided into four sections this book provides a comprehensive overview of water resources of India. A detailed treatment of all major river basins is provided. This is followed by a discussion on major uses of water in India. Finally, the closing chapters discuss views on water management policy for India.

Wetlands Conservation An up-to-date overview of approaches for addressing wetlands degradation and its effects on ecosystem services, human health, and other ecosystems
Wetlands are essential sources of biodiversity, water purification, groundwater replenishment, flood control, storm protection, sediment retention, recreation and tourism, and more. Human exploitation of natural resources over the past 200 years has caused significant wetlands degradation and loss. Although the Ramsar Convention of 1971 drafted policies for wetland conservation and responsible use, many wetland sites remain inadequately conserved or managed. Maintaining the ecological balance and equilibrium of wetlands requires a clear understanding of the vital role of wetlands, the difficulties they face, and the policies enacted for their protection. **Wetlands Conservation: Current Challenges and Future Strategies** summarizes both current and emerging management strategies, trends, and policies regarding wetlands protection around the world. The authors provide accurate scientific information on wetlands while discussing the effects of climate change, global warming, modernization in agriculture, and other key topics. Designed to assist in the development of future solutions for wetlands conservation and management strategies, this important volume: Highlights the environmental, socioeconomic, and cultural importance of wetlands Identifies the factors responsible for the failure of many conservation initiatives Describes the natural and anthropogenic factors of wetlands degradation Discusses the role of community-based wetlands conservation and management Explores Ramsar wetlands conservation and its impacts worldwide **Wetlands Conservation: Current Challenges and Future Strategies** is an

invaluable resource for graduate and postgraduate students, researchers, ecologists, policymakers, conservation organizations, and others working in the field of natural resources management.

The book is a compilation of the papers presented in the International Conference on Emerging Trends in Water Resources and Environmental Engineering (ETWREE 2017). The high quality papers are written by research scholars and academicians of prestigious institutes across India. The book discusses the challenges of water management due to misuse or abuse of water resources and the ever mounting challenges on use, reuse and conservation of water. It also discusses issues of water resources such as water quantity, quality, management and planning for the benefits of water resource scientists, faculties, policy makers, stake holders working in the water resources planning and management. The research content discussed in the book will be helpful for engineers to solve practical day to day problems related to water and environmental engineering.

This book comprises the edited Proceedings of the 28th WEDC Conference held in Kolkata (Calcutta), India in November 2002. It presents over one hundred and forty papers relating to subjects including sanitation, hygiene promotion, solid waste management, environment, wastewater, water resources and water supply, including management, financial, institutional and community issues, as well as keynote addresses.

This present volume focuses on biogeographic dimensions, biodiversity conservation, and sustainable use of its components in socio-economic development. A holistic perspective of biodiversity conservation includes biogeo monitoring and indicators, climate change, tourism, and invasive and alien species. Special attention has been given on mountain, coastal, and marine biodiversity, as well as ecodevelopment in protected areas, local knowledge, technology transfer, education, and public awareness. Biogeography and Biodiversity contains 26 chapters relating to conceptual and empirical case studies from developed and developing countries. The book also combines science and policy perspectives to biogeography and biodiversity. It will be of interest to students, researchers, and teachers in geography, environmental studies, biosciences, ecology, and policy science.

The dominance of insects amongst all living organisms on earth, coupled with infinite wealth of knowledge so important for our own existence, is a fundamental scientific fact which is yet to be widely acknowledged. This dominance means that in numbers of species beyond our comprehension these animals permeate diverse and essential natural processes in Earth's terrestrial, aerial and freshwater ecosystems, contributing to the function of the natural world as a self-sustaining biological system. Invariably insects are an integral and complex part of the terrestrial and freshwater ecosystems with which the future of humans is inextricably linked. Insects have ultimately achieved a formidable diversity. Generally, insects are beneficial organisms, however, many of them are important pests and/or vectors to a large number of parasites and other microbial pathogens to both human being, his associates and the plants. The burden caused by their infestation or infection run up to several million-zillion rupees annually. Therefore, knowledge about extreme biodiversity and ecological relationships of these animals is a practical necessity: in the man's own interest to sustain the species.

Packed with original 25 original articles/reviews, this book on 'Entomology: Ecology and

Biodiversity' offers an invaluable opportunity to comprehend more deeply about our most intimate allies - the insects! The book truly establishes a foundation in basic entomology through varied and diverse treatment to entomology, while focusing on specialized topics in insect ecology and biodiversity, forensic and medical entomology. The present book highlights studies that show how smart cities promote urban economic development. The book surveys the state of the art of Smart City Economic Development through a literature survey. The book uses 13 in depth city research case studies in 10 countries such as the North America, Europe, Africa and Asia to explain how a smart economy changes the urban spatial system and vice versa. This book focuses on exploratory city studies in different countries, which investigate how urban spatial systems adapt to the specific needs of smart urban economy. The theory of smart city economic development is not yet entirely understood and applied in metropolitan regional plans. Smart urban economies are largely the result of the influence of ICT applications on all aspects of urban economy, which in turn changes the land-use system. It points out that the dynamics of smart city GDP creation takes 'different paths,' which need further empirical study, hypothesis testing and mathematical modelling. Although there are hypotheses on how smart cities generate wealth and social benefits for nations, there are no significant empirical studies available on how they generate urban economic development through urban spatial adaptation. This book with 13 cities research studies is one attempt to fill in the gap in knowledge base.

TERI Energy & Environment Data Diary and Yearbook (TEDDY) is an annual publication brought out by The Energy and Resources Institute (TERI) since 1986. It is the only comprehensive energy and environment yearbook in India that provides updated information on the energy supply sectors (coal and lignite, petroleum and natural gas, power, and renewable energy sources), energy demand sectors (agriculture, industry, transport, household), and local and global environment sectors (environment and climate change). The publication also provides a review of the government policies that have implications for the sectors of the Indian economy. In TEDDY, an account of India's commercial energy balances is given, which provide comprehensive information on energy flows within different sectors of the economy and how they have been changing over time. These energy balances and conversion factors are a valuable ready reckoner for researchers, scholars, and organizations working in the energy sector. After the introductory chapters, for the ease of readers, TEDDY has been divided into sections on energy supply, energy demand, and local and global environment. Interactive graphs, figures, maps, and tables have been used throughout the chapters to explain facts, which make the book an interesting read. In addition, detailed tables at the end of each chapter represent statistical data on each of the above-mentioned sectors. The publication is accompanied by a complimentary CD containing full text. The publication has more than 15,000 readers across the globe and is often cited in international peer-reviewed journals and policy documents.

This book is the result of five years' exhaustive work by the BNHS. The data, which form the core of the book, have been collected by more than 1,000 people: many hundreds of professional and amateur ornithologists, birdwatchers, conservationists, forest officials, and others interested in birds. It is the most detailed publication ever produced on the subject of birds or conservation and it uncovers, analyzes and

assesses all of the evidence, presenting it together with all the sources. The study has given a detailed analysis of sites that have been identified for bird conservation in India on the basis of globally accepted criteria. Each bird area is introduced with maps, analysis, avifauna section with tables of threatened species present, and a brief description of threatened birds, which have important habitats in the relevant states. The study shows that out of 465 important birds in India, 191 wildlife sanctuaries have been identified as IBAs, 52 are national parks, 23 are tiger reserves, while 198 are not officially protected.

The risks and consequences of environmental change are increasing, leading to massive losses in terms of ecosystems and having a huge impact on human populations. As such, global thinkers, environmentalists, scientists and policy makers are focusing on finding solutions and ways to sustain life on Earth. Anthropogenic impacts on the climate system can only be mitigated by the restoration of existing natural resources and the sustainable development of the environment and society. This book discusses the potential of green technology in waste management, wetland restoration, presenting the latest developments in the field of bioenergy, green ecology, bioremediation and microbial management. Wetlands are one of Earth's most important ecosystems, and they provide valuable services to human societies, such as minimizing the impacts of floods, acting as a carbon sink, and offering water purification as well as recreational opportunities. Wetlands may be natural or constructed, and the effectiveness of wetland services largely depends on the diversity of macrophytes affecting the algal production, plant biomass and nutrient status of the system. In addition, they are one of the richest microbial ecosystems on earth: the rhizosphere, soil and water interface enhances wetland services with implications ranging from phytoremediation to microbial bioprospection. However, in order to function properly, they need to be effectively redesigned, reengineered, protected and maintained. The book addresses the dynamic relation between three global concerns: environmental pollution, resource exploitation and sustainability. It describes the utilization of resources like wastes (municipal, industrial, agricultural, mine drainage, tannery, solid, and e waste), plants, algae and microbes for production of renewable biofuel, biofertilizers and other value added products to achieve the goal of sustainable development. The book also discusses the current and future trends in employing wetlands in improving water quality. In addition it presents the latest international research in the fields of wetland science, waste management, carbon sequestration and bioremediation. Highlighting a broad spectrum of topics and strategies for achieving a sustainable environment, the book offers researchers, students and academics insights into utilizing resources in a sustainable way.

Agroforestry, the word coined in early seventies, has made its place in all the developed and the developing countries of the world and is now recognized as an important approach to ensuring food security and rebuilding resilient rural environments. India has been an all-time leader in agroforestry. The South and Southeast Asia region comprising India is often described as the cradle of agroforestry. Almost all forms of agroforestry systems exist across India in ecozones ranging from humid tropical lowlands to high-altitude and temperate biomes, and perhumid rainforest zones to parched drylands. The country ranks foremost among the community of nations not only in terms of this enormous diversity and long tradition of the practice of

agroforestry, but also in fostering scientific developments in the subject. Agroforestry applies to private agricultural and forest lands and communities that also include highly erodible, flood-prone, economically marginal and environmentally sensitive lands. The typical situation is agricultural, where trees are added to create desired benefits.

Agroforestry allows for the diversification of farm activities and makes better use of environmental resources. Owing to an increase in the population of human and cattle, there is increasing demand of food as well as fodder, particularly in developing countries like India. So far, there is no policy that deals with specifics in agroforestry in India. But, the Indian Council of Agricultural Research has been discussing on the scope of having a National Agroforestry Policy in appropriate platforms. However, evolving a policy requires good and reliable datasets from different corners of the country on the subject matter. This synthesis volume containing 13 chapters is an attempt to collate available information in a classified manner into different system ecologies, problems and solutions, and converging them into a policy support.

Remote Sensing of Ocean and Coastal Environments advances the scientific understanding and application of technologies to address a variety of areas relating to sustainable development, including environmental systems analysis, environmental management, clean processes, green chemistry and green engineering. Through each contributed chapter, the book covers ocean remote sensing, ocean color monitoring, modeling biomass and the carbon of oceanic ecosystems, sea surface temperature (SST) and sea surface salinity, ocean monitoring for oil spills and pollutions, coastal erosion and accretion measurement. This book is aimed at those with a common interest in oceanography techniques, sustainable development and other diverse backgrounds within earth and ocean science fields. This book is ideal for academicians, scientists, environmentalists, meteorologists, environmental consultants and computing experts working in the areas of earth and ocean sciences. Provides a comprehensive assessment of various ocean processes and their relative phenomena Includes graphical abstract and photosets in each chapter Presents literature reviews, case studies and applications

Certain types of pesticides are widely used in agriculture in all parts of the world due to their relatively low cost, broad spectrum of activity, and high efficiency. These pollutants contaminate not only the surrounding soils and water but, in many cases, also enter into the drinking water. The Handbook of Research on the Adverse Effects of Pesticide Pollution in Aquatic Ecosystems provides emerging research exploring the theoretical and practical aspects of the prevention of accumulation of toxic pollutants such as agrochemicals and organochlorine pesticides in aquatic ecosystems and applications within ecology and agriculture. Featuring coverage on a broad range of topics such as pesticide monitoring, metabolites, and risk assessment, this book is ideally designed for scientists, researchers, engineers, policymakers, agricultural specialists, industrialists, academicians, and students seeking current research on the risks of water contaminants in small ecosystems.

Quarterly Current Affairs Vol. 1 - January to March 2019 for Competitive Exams is a unique handy magbook as it gives the complete update of the 1st three months of 2019. The book talks of all the recent developments in the field of Polity,

