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Biodiversity and Conservation of Woody Plants - M. R. Ahuja 2017-11-21

This book provides complete, comprehensive, and broad subject-based reviews for students, teachers, researchers, policymakers, conservationists, and NGOs interested in the biodiversity and conservation of woody plants. Forests cover approximately 31 percent of the world's total landmass; 93 percent is natural forest and only 7 percent consists of planted trees. Forest decline is progressing at an alarming rate worldwide. In addition to human activities (logging, deforestation, and exploiting forest lands for agriculture and industrial use), a number of other factors - including pests and diseases, drought, soil acidity, radiation, and ozone - are cumulatively contributing to global forest decline. The present situation forces us to focus on forest conservation strategies for the present and future. Gene conservation and maintaining genetic diversity in forest ecosystems are crucial to the preservation of forest genetic resources. This calls for integrated action to implement both the in situ (on site) preservation of forest stands and ex situ (distant from the original site) strategies for the conservation of

woody plants' genetic resources. Selected priority areas include: 1) assessing patterns of genetic diversity and threats, 2) understanding the biological processes regulating genetic diversity, 3) assessing the impact of human activities and climate change on genetic diversity, and 5) finding methods for prioritizing species and populations for the conservation of forest trees genetic resources. All chapters were written by leading scientists in their respective fields, which include: woody plant diversity, ecology and evolution; assessment of genetic diversity in forest tree populations; conservation planning under climate change; and in situ and ex situ strategies, including biotechnological approaches, for the conservation of woody plants genetic resources.

Precious Forests - Miodrag Zlatic 2015-09-30

Forests are the dominant terrestrial ecosystem of Earth. They are distributed across the globe. Forests account for 75% of the gross primary productivity of the Earth's biosphere, and contain 80% of the Earth's plant biomass. Human society and forests influence each other in both positive and negative ways. Forests provide ecosystem services to humans. Forests can also impose costs, affect people's health, and

interfere with tourist enjoyment. This publication presents reviews and research results on negative and positive human interference on forests, as well as ecology, management, governance, policy and economic issues. The book consists of four sections with 12 chapters derived from around the world.

Drought risk management: a strategic approach - Speed, Robert
2016-09-19

India's Forests, Real and Imagined - Alan Johnson 2022-12-29

As they seek to explore evolving and conflicting ideas of nationhood and modernity, India's writers have often chosen forests as the dramatic setting for stories of national identity. *India's Forests, Real and Imagined* explores how these settings have been integral to India's sense of national consciousness. Alan Johnson demonstrates that modern writers have drawn on older Indian literary traditions of the forest as a place of exile, trial and danger to shape new ideas of India as a modern nation. The book casts new light on a wide range of modern writers, from Bankim Chandra Chattopadhyay – widely regarded as the first Indian novelist – to contemporary authors such as Amitav Ghosh, Arundhati Roy, and Salman Rushdie as well as local attitudes to nationhood and the environment across the country.

The role of livestock in food security, poverty reduction and wealth creation in West Africa - Food and Agriculture Organization of the United Nations 2020-07-01

With the objective of gaining a better insight into the challenges and opportunities of the livestock sub-sector in West Africa, FAO has conducted several studies and held various workshops in recent years. The outcomes of these studies and workshops conducted between 2009 and 2014 were published and distributed as hard copy reports and disseminated as on-line publications. These reports included topics such as value chains, cross-border transhumance, animal feed resources, priority animal diseases, among others, were informative in their own right. Still, the fact that they targeted specific areas of livestock in a fragmented manner did not address the need of readers whose wish was

to have a comprehensive understanding of the livestock sector in West Africa. It is in response to this demand for a comprehensive outlook of the West African Livestock sub-sector that different reports and studies have been compiled into this one book. The book has twelve chapters, covering almost all aspects of livestock in the region. Attempts were made to enrich the information provided by including eight short case studies focusing on different aspects of the livestock sub-sector in West Africa. The book attempts to fill the gap of a need for comprehensive information on the potential, performance, challenges, and prospects of the livestock sub-sector in West Africa.

Conservation, Management and Monitoring of Forest Resources in India - Meheeb Sahana 2022-08-04

This volume is devoted to compiling recent advancements, methodological improvements, new processing techniques, integration methods and rigorous applications associated with conceptual techniques on the conservation and monitoring of forest resources for a scientific audience, with a focus on cases and applications in India. The primary objective of the book is to advance the scientific understanding of the recent trends and technological improvements in forest conservation, management and related research themes in forest resources and human-wildlife interactions. The book is organized into five sections: (I) Forest Conservation Ecology (II) Forest Conservation and Society (III) Forest Management (IV) Forest Monitoring using GIS and Remote Sensing and (V) Human Wildlife Conflicts. It covers various research themes related to forestry, wildlife, habitat fragmentation, forest management and human-wildlife conflict research, and therefore will be beneficial to a diverse range of researchers, scientific organizations, wildlife scientists, biologists, ecologists and planners in the fields of wildlife and forestry. The book will further be of use to post-graduates, PhD research scholars, professors, geospatial experts, modellers, foresters, agricultural scientists, biologists, ecologists, environmental consultants and big data compilers.

Global Perspectives on Sustainable Forest Management - Dr. Clement A. Okia 2012-04-25

This book is dedicated to global perspectives on sustainable forest management. It focuses on a need to move away from purely protective management of forests to innovative approaches for multiple use and management of forest resources. The book is divided into two sections; the first section, with thirteen chapters deals with the forest management aspects while the second section, with five chapters is dedicated to forest utilization. This book will fill the existing gaps in the knowledge about emerging perspectives on sustainable forest management. It will be an interesting and helpful resource to managers, specialists and students in the field of forestry and natural resources management.

Handbook of Green Concept - Ms. Kity Maurya and Dr. Aneeta Sen
This book mainly focuses on Green concept i.e., Green Chemistry, Green Economy, Green Finance and various environmental issues. This book makes the Green concept crystal clear in different disciplines. It is beneficial for individuals of Science, Commerce as well as Arts streams. Thus, it is a web of various fields coming together, woven in a better way to understand the Environment and the requirement of understanding its different corners. The green concept is not very new concept but still its difficult to understand in regarding to its various fields. This Handbook is written in language which could be easily understood which makes the targeted concept clear in a better way. Various diagrams, tables and examples have been included which makes the book more attractive for the readers.

Naturalists, Explorers and Field Scientists in South-East Asia and Australasia - Indraneil Das 2016-04-25

"Alfred Russel Wallace- His Predecessors and Successors. Naturalists, Explorers and Field Scientists in South-east Asia and Australasia. An International Conference" will be the premier forum for the presentation of new advances and research results in the fields of studies on Alfred Russel Wallace and other natural historians, past and present, as well as contemporary research on South-east Asian and Australasian biological diversity. The conference will bring together leading researchers including biologists, ecologists, zoologists, botanists, geologists,

anthropologists, social scientists and others from around the world. Topics of interest include, but are not limited to: history of biology, biodiversity, anthropology, geology, conservation, ecosystem management, environmental impact assessments, environmental law, environmental policies, landscape management and habitat restoration and management.

Plant Phenolics in Abiotic Stress Management - Rafiq Lone 2023-01-13

This book is a comprehensive collection of information on the role of plant phenolics in stress management in plants. The main focus of this book is to address the abiotic stress management in plants by plant phenolics under varied environments. Plant metabolic networks contribute significantly to the plasticity of plant metabolism, which is required to afford the sessile lifestyle of a land plant under changing environmental conditions. In natural systems, plants face a plethora of antagonists and thus possess a myriad of defenses and have evolved multiple defense mechanisms by which they can cope with various kinds of stresses for adaptation. Plant phenolics being ubiquitous have been extracted from every plant part such as roots, stem, leaves, flowers, fruits, and seeds and thus plays important role in adapting the plants to the varied environment. The book will provide readers with an up-to-date review of this dynamic field and sets the direction for future research. This book is of interest and use to a diverse range of topics of regulation of abiotic stress in plants. Bringing together work from leading international researchers, it is also a valuable reading material for plant and agricultural scientists, academics, researchers, students, and teachers wanting to gain insights into the role of plant phenolics in stress management in plants for sustainable agriculture.

Forest Dynamics and Conservation - Manoj Kumar 2022-05-16

This book unveils forestry science and its policy and management that connect past and present understanding of forests. The aggregated knowledge is presented to cover the approaches adopted in studying forest structure, its growth, functioning, and degradation, especially in the context of the surrounding environment. The application of advance computation, instrumentation, and modelling has been elaborated in

various chapters. Forest ecosystems are rapidly changing due to forest fires, deforestation, urbanization, climate change, and other natural and anthropogenic drivers. Understanding the dynamics of forest ecosystems requires contemporary methods and measures, utilizing modern tools and big data for developing effective conservation plans. The book also covers discussion on policies for sustainable forestry, agroforestry, environmental governance, socio-ecology, nature-based solutions, and management implication. It is suitable for a wide range of readers working in the field of scientific forestry, policy making, and forest management. In addition, it is a useful material for postgraduate and research students of forestry sciences.

Biotechnology for Sustainable Environment - Sanket J. Joshi 2021-08-01
This book brings together the most recent advances from leading experts in the burgeoning field of environmental biotechnology. The contributing chapters adopt a multidisciplinary approach related to environmental aspects of agriculture, industry, pharmaceutical sciences and drug developments from plant and microbial sources, biochemical chemical techniques/methods/protocols involved in different areas of environmental biotechnology. Book also highlights recent advancements, newly emerging technologies, and thought provoking approaches from different parts of the world. It also discusses potential future prospects associated with some frontier development of biotechnological research related to the environment. This book will be of interest to teachers, researchers, biotechnologists, capacity builders and policymakers, and will serve as additional reading material for undergraduate and graduate students of biotechnology, microbiology and environmental sciences.

Climate Change and Environmental Impacts: Past, Present and Future Perspective - Binita Phartiyal 2023-01-17

Earth's climate varies even without human influence but the acceleration in the changing pattern with cause and effect by/to the civilisation is a matter of concern to scientists. These patterns are lessons to understand future trends and ways and means for mitigation. The extreme weather events in almost every region of the globe involving excessive loss of human life and property are causing anxiety in society and posing

challenges before scientists and planners. Cyclical variations in the Earth's climate occur at multiple time scales, from years to decades, centuries, and millennia. Cycles at each scale are caused by a variety of physical mechanisms. In the last 65 Ma only, there have been several cycles of glacial advances and retreat, with the abrupt end of the last ice age about 11,700 years ago marking the beginning of the modern climate era and human civilization. A multidisciplinary approach in studying the Earth's changing climate will provide a holistic view and guide us in future planning and programming.

Land Degradation Neutrality: Achieving SDG 15 by Forest Management - Pankaj Panwar 2022-11-19

This edited book covers all aspects of forest deforestation and degradation in detail and their link to land degradation. Poor natural resource management is often a contributory factor in the depletion of resources particularly like degradation of land which hinders the goals to achieve land degradation neutrality (LDN). Sustainable Development Goal (SDG) target 15.3 states: "By 2030, combat desertification, restore degraded land and soil, including land affected by desertification, drought, and floods, and strive to achieve a land degradation-neutral world." To achieve the set goals a comprehensive multidirectional approach is required involving policymakers, field functionaries, researchers, and above all educators. The book compiles the field experiences and wisdom of some of the best researchers and authors working in the field of land degradations for quite a long time. The objective of the book is to disseminate the status of land degradation, the importance of achieving land degradation and share success stories of reclaiming Land degradation, and suggests means and ways of achieving land degradation neutrality. This book act as a repository of knowledge on Land degradation neutrality for students, researchers and practitioners, and policy planners.

Global Perspectives on Sustainable Forest Management - Dr. Clement A. Okia 2012-04-25

This book is dedicated to global perspectives on sustainable forest management. It focuses on a need to move away from purely protective

management of forests to innovative approaches for multiple use and management of forest resources. The book is divided into two sections; the first section, with thirteen chapters deals with the forest management aspects while the second section, with five chapters is dedicated to forest utilization. This book will fill the existing gaps in the knowledge about emerging perspectives on sustainable forest management. It will be an interesting and helpful resource to managers, specialists and students in the field of forestry and natural resources management.

The Problem of Afforestation in India - Pratibha Bhatnagar 1991
Afforestation and ecological balance; Chapter 4 Afforestation of wastelands; Chapter 5 Forestry and rural development; Chapter 6 Peoples participation in afforestation; Chapter 7 Social forestry; Chapter 8 Forests and climate: impact of deforestation and implication in the long period.

Global Environmental Change - National Research Council 1991-02-01
Global environmental change often seems to be the most carefully examined issue of our time. Yet understanding the human side—human causes of and responses to environmental change—has not yet received sustained attention. Global Environmental Change offers a strategy for combining the efforts of natural and social scientists to better understand how our actions influence global change and how global change influences us. The volume is accessible to the nonscientist and provides a wide range of examples and case studies. It explores how the attitudes and actions of individuals, governments, and organizations intertwine to leave their mark on the health of the planet. The book focuses on establishing a framework for this new field of study, identifying problems that must be overcome if we are to deepen our understanding of the human dimensions of global change, presenting conclusions and recommendations.

China's Soil Pollution and Degradation Problems - Claudio O. Delang 2017-05-18
China's air pollution is infamous. The haze can make it impossible to see buildings across the street, and the pollution forces schools to close and

creates health and morbidity problems, in addition to tremendous environmental degradation. However, China also faces another important environmental problem, which is less well-known to the public: that of soil degradation and pollution. This book provides an overview of the problems related to soil degradation and pollution throughout China, examining how and why current policy has fallen short of expectation. It also examines the challenges faced by policy makers as they attempt to adopt sustainable practices alongside a booming and ever-expanding economy. China's Soil Pollution and Degradation Problems utilizes grey literature such as newspaper articles, NGO reports and Chinese government information alongside academic studies in order to provide an extensive review of the challenges faced by grassroots organizations as they tackle environmental policy failings throughout China. This book will be of great interest to students of environmental pollution and contemporary Chinese studies looking for an introduction to the topics of soil pollution and soil degradation, and for researchers looking for an extensive list of sources and analysis of China's environmental problems more broadly.

Forest Degradation Around the World - MOHD NAZIP SURATMAN
2020-02-26

The growth in the human population has forced mankind to convert forested land into other land uses such as agricultural land, residential, urban, road construction and mining activities. The degradation of forest due to anthropogenic activities is significantly reducing forests in the world. These practices result in significant impacts on the forest structure, species composition and ecology, which will consequently reduce forest productivity and ecosystem functions. Due to deforestation, half of the earth's vegetation surface has reduced to one-third, resulting in large degraded areas. The significant reduction of the forest areas requires appropriate planning for sustainable management of the forests. This book reviews the extent and consequences of deforestation around the world. It highlights case studies of the causes of deforestation in Malaysia, Korea, India, Bangladesh, Columbia, Brazil and Mali. It is hoped that the book will provide insights on the importance of effective

forest planning and management for the sustainable development of forest resources.

Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018) - U.

Chandrasekhar 2018-12-14

The book includes the best articles presented by researchers, academicians and industrial experts at the International Conference on “Innovative Design and Development Practices in Aerospace and Automotive Engineering (I-DAD 2018)”. The book discusses new concept in designs, and analysis and manufacturing technologies for improved performance through specific and/or multi-functional design aspects to optimise the system size, weight-to-strength ratio, fuel efficiency and operational capability. Other aspects of the conference address the ways and means of numerical analysis, simulation and additive manufacturing to accelerate the product development cycles. Describing innovative methods, the book provides valuable reference material for educational and research organizations, as well as industry, wanting to undertake challenging projects of design engineering and product development.

Tropical Deforestation and Climate Change - P. Moutinho 2005

Tropical deforestation, fires and emissions: measurement and monitoring; How to reduce deforestation emissions for carbon credit: compensated reduction; Policy and legal frameworks for reducing deforestation emissions.

Climate Change Science - National Research Council 2001-07-28

The warming of the Earth has been the subject of intense debate and concern for many scientists, policy-makers, and citizens for at least the past decade. *Climate Change Science: An Analysis of Some Key Questions*, a new report by a committee of the National Research Council, characterizes the global warming trend over the last 100 years, and examines what may be in store for the 21st century and the extent to which warming may be attributable to human activity.

Handbook of Research on Sustainable Development Goals, Climate Change, and Digitalization - Castanho, Rui Alexandre

2021-11-12

In recent years, the world has been changing considerably. Within the many obstacles, barriers, and opportunities, three significant challenges should be considered for the future planning of our territories and cities: seeking to achieve Sustainable Development Goals (SDG), facing climate change, and performing a shift towards digitalization. Considering these three challenges, we can work toward a more sustainable future for the environment. The *Handbook of Research on Sustainable Development Goals, Climate Change, and Digitalization* elaborates on sustainability issues in the planning and development field regarding the environment. This text promotes understanding about the dynamics, challenges, and opportunities for the new decade regarding our common future planning. Covering topics such as circular economy, economic-ecological principles, and sustainable resilience, this book is essential for academicians, researchers, policymakers, environmentalists, scientists, technicians, decision makers, practitioners, and students.

Environmental Degradation: Challenges and Strategies for Mitigation - Vijay P. Singh 2022-04-27

This book discusses problems, challenges, and mitigation strategies in the wake of environmental degradation. It suggests proactive solutions to problems of environmental degradation for strategic planning as well as their effective delivery, and problems arising due to growth in population, industry, and land use change. The uniqueness of the book is its broader spectrum of coverage with related interconnections and interdependence of various aspects. Presenting a wide spectrum of viewpoints and approaches, the book covers topics, such as deforestation impacts (land use and land cover, soil erosion); impacts on climate change and human health; treatment of industrial, municipal, biological waste disposal and their impacts on soil, water, and air; recovery/remediation processes and technologies; impacts of pesticides and chemical fertilizers on soil degradation and groundwater; socio-economic environmental sustainability; and socio-economic health impacts. Particular focus is placed on strategic planning and methodological handling of environmental degradation and remediation through various processes and treatment technologies. This book will be

useful to researchers, professionals, policy makers, and environmental engineers.

Agricultural Technologies and Tropical Deforestation - Arild Angelsen 2001-04-20

This book has been developed from a workshop on Technological change in agriculture and tropical deforestation organised by the Center for International Forestry Research and held in Costa Rica in March, 1999. It explores how intensification of agriculture affects tropical deforestation using case studies from different geographical regions, using different agricultural products and technologies and in differing demographic situations and market conditions. Guidance is also given on future agricultural research and extension efforts.

Economics and Sustainability - Karl Bruckmeier 2020-11-21

This textbook provides an overview of economic perspectives on sustainability. It synthesises economic, ecological and interdisciplinary sustainability research and by applying an integrated social-ecological and economic framework, demonstrates how this research can be improved and implemented in practice. Split into three parts, the book begins by introducing a range of topics forming the basis of knowledge needed to understand the varying sustainability discourses in economics, ecology and interdisciplinary sustainability research. Chapters cover the political context of sustainability; the history of sustainability in European environmental discourses dating back to the seventeenth century; as well as various problems and forms of interdisciplinary knowledge integration and synthesis in the sustainability process. Part II reviews the core economic themes relevant to sustainable development including natural resource management, environmental economics and ecological economics. Also highlighted are often neglected issues such as conflicts, disasters and interrelated crises on the way towards sustainability. The chapters in Part III discuss the future of the sustainability process. They argue for the necessity of overhauling the relationship between science and practice; explore failures and the unforeseen difficulties of sustainability transformation; and discuss how to enable a long term sustainability process that reaches into the distant

future. An innovative resource for a broad range of interdisciplinary programmes on sustainability. The book will be an invaluable reference for master and PhD students, instructors, researchers and practitioners in sustainability governance.

Climate Change Effect on Crop Productivity - Rakesh S. Sengar 2014-11-13

Explore the Relationship between Crop and Climate Agricultural sustainability has been gaining prominence in recent years and is now becoming the focal point of modern agriculture. Recognizing that crop production is very sensitive to climate change, *Climate Change Effect on Crop Productivity* explores this timely topic in-depth. Incorporating contributions by expert scientists, professors, and researchers from around the world, it emphasizes concerns about the current state of agriculture and of our environment. This text analyzes the global consequences to crop yields, production, and risk of hunger linking climate and socioeconomic scenarios. Addresses Biotechnology, Climate Change, and Plant Productivity The book contains 19 chapters covering issues such as CO₂, ozone on plants, productivity fertilization effect, UV (ultraviolet) radiation, temperature, and stress on crop growth. The text discusses the impact of changing climate on agriculture, environment stress physiology, adaptation mechanism, climate change data of recent years, impact of global warming, and climate change on different crops. It explores the overall global picture in terms of the effect of crops to climate change during abiotic stress and considers strategies for offsetting and adapting to ongoing climate change. Details how and why climate change occurs and how it effects crop productivity and agriculture Considers what measures should be taken to mitigate the effect of climate change on agriculture Highlights the effect of climate change on crop productivity, the invention of new technology, and strategies for agriculture practice to adapt to climate change Provides an analysis of the global warming effect on crop productivity due to climate change and long-term agriculture technique development Confirms the asymmetry between potentially severe agricultural damages such as the effect on crop yield due to variation in temperature Reports on the

results of experiments to assess the effects of global climate change on crop productivity. An asset to agriculturists, environmentalists, climate change specialists, policy makers, and research scholars, *Climate Change Effect on Crop Productivity* provides relevant information and opportunities for productive engagement and discussion among government negotiators, experts, stakeholders, and others concerned about climate change and agriculture.

The Forest Sector - 1991

Since 1978, when the World Bank published its policy paper on forestry, the world's understanding of and concern about the forest sector of the developing world has increased substantially. It has become clear that forests and woodlands play an even more important economic and ecological role than had earlier been recognized. In particular, the importance of tropical moist forests in protecting biological diversity has become more fully appreciated, as has their role in the carbon cycle and in global climatic change. The nature of the challenge; Deforestation and forest degradation; The growing demand for forests and trees for basic needs; Strategies for forest development; The role of the world bank; Challenges for the forest sector; Strategies for forest development; The role of the world bank.

The Causes of Tropical Deforestation - Katrina Brown 1994

Presents econometric analysis of tropical deforestation, quantifying and examining its local and underlying global causes, with discussion of factors such as population, debt, income and poverty, the timber trade, and agricultural development, and regional and country case studies focusing on Asia and Latin America. Of interest to students and professionals in economics, environmental science, and development studies. Annotation copyright by Book News, Inc., Portland, OR

Acid Rain, Causes, Effects and Control Strategies - Sivakumaran Sivaramanan 2018-01-19

Acid rain is one of the major environmental threats since 19th century. This book reviews the 2012 progress report of US EPA (2013) and summarizes the issue in various environmental aspects. Significant reduction in the SO₂, NO_x emission and deposition of acid have been

occurred via the active implementation of Clean Air Interstate Rule (CAIR), Acid Rain Program (ARP) and NO_x budget trading program (NBP). Cross state air pollution rule and litigation (CSAPR) implemented by US EPA since 2011 reduces the cross boundary movement of effluents between US and Canada. US national composite means of average SO₂ annual mean ambient concentration has been declined by 85% in the period between 1980 and 2012.

Economic Models of Tropical Deforestation: A Review - David Kaimowitz 1998-01-01

Types of economic deforestation models. Household and firm-level models. Regional-level models. National and macro-level models. Priority areas for future research.

Climate Vulnerability - 2013-03-15

Climate change has been the subject of thousands of books and magazines, scientific journals, and newspaper articles daily. It's a subject that can be very political and emotional, often blurring the lines between fact and fiction. The vast majority of research, studies, projections and recommendations tend to focus on the human influence on climate change and global warming as the result of CO₂ emissions, often to the exclusion of other threats that include population growth and the stress placed on energy sources due to emerging global affluence. *Climate Vulnerability* seeks to strip away the politics and emotion that surround climate change and will assess the broad range of threats using the bottom up approach—including CO₂ emissions, population growth, emerging affluence, and many others—to our five most critical resources: water, food, ecosystems, energy, and human health. Inclusively determining what these threats are while seeking preventive measures and adaptations is at the heart of this unique reference work. Takes a Bottom-Up approach, addressing climate change and the threat to our key resources at the local level first and globally second, providing a more accurate and inclusive approach. Includes extensive cross-referencing, which is key to readers as new connections between factors can be discovered. Cuts across a number of disciplines and will appeal to Biological Science, Earth & Environmental Science, Ecology, and Social

Science, comprehensively addressing climate change and other threats to our key resources from multiple perspectives

Priority-Zone Mapping for Reforestation - Larissa Böhrkircher
2023-02-02

Andean dry forest ecosystems are threatened by deforestation and unsustainable land use methods. The negative effects for the livelihood of the local population, biodiversity, and the regional climate could be countered by reforestation measures; however, dry land forests have not attracted the same level of interest and investment like other ecosystems. This book describes the development of a priority-zone map for reforestation measures, showing where reforestation might have the greatest social and ecological benefits. To achieve this, a problem analysis of a case study region is conducted and thematic reforestation benefits are determined. Using remote sensing and GIS, the areas where benefits can be obtained are mapped in individual layers and compiled into a summarizing priority-zone map. It is thus possible to identify areas where reforestation would achieve multiple benefits. The concept of priority maps could be used to facilitate reforestation strategies by local communities and municipal governments and could thus contribute to initiate an integrated forest and landscape restoration of the Bolivian montane dry forests.

Biotechnological Applications of Biomass - Thalita Peixoto Basso
2021-08-18

Biotechnological Applications of Biomass provides a comprehensive overview of the current state of the art of biomass utilization in agriculture and pharmaceuticals. The information contained herein is useful to researchers and other readers interested in biomass utilization and production of bioproducts.

Environmental Degradation: Causes and Remediation Strategies - Vinod Kumar
2020-03-10

The compliance of this book is helpful for academicians, researchers, students, as well as other people seeking the relevant material in current trends of studies on the topic of environmental degradation.

Forest Ecology and Conservation - Gopal Shukla 2017-04-19

This book is dedicated to forest ecology and conservation on ecological and conservation aspects of forest. The book is divided into two sections: the first section "Forest Ecology" with four chapters deals with forest ecological aspects, while the second section "Forest Conservation" with two chapters looks into new techniques for conserving the forests. This book will bridge the gaps in the knowledge about some new emerging issues on forest ecology and conservation. It will be an interesting and helpful resource to all those in the field of forestry working for its sustainable use and conservation.

Global Perspectives on Sustainable Forest Management - Dr. Clement A. Okia
2012-04-25

This book is dedicated to global perspectives on sustainable forest management. It focuses on a need to move away from purely protective management of forests to innovative approaches for multiple use and management of forest resources. The book is divided into two sections; the first section, with thirteen chapters deals with the forest management aspects while the second section, with five chapters is dedicated to forest utilization. This book will fill the existing gaps in the knowledge about emerging perspectives on sustainable forest management. It will be an interesting and helpful resource to managers, specialists and students in the field of forestry and natural resources management.

Applied Geomorphology and Contemporary Issues - Sujit Mandal
2022-09-03

The edited book deals with climate change and its response to river system which is one of the most burning issues of the Global environment. Due to urbanization and industrialization land degradation and resource depletion are happening and promoting livelihood challenges in the world which is reflected in the book too. The book addresses the construction of dams over large rivers and its possible consequences in the environment. Changes of the hydrology and sedimentology are to be addressed in the book. The climate change phenomena and associated geomorphic hazards and contemporary environmental issues such as sea level rise, coastal flood, drought, wind

erosion, flood, soil erosion, landslide, depletion of ground water, coastal erosion etc. are elaborated in the book with suitable methods and techniques. So this edited book will contribute a lot to general to particular field of studies and will help to geographers, geomorphologists, environmentalists, planners, policy makers and developers for studies and promoting regional plans and development.

Why Forests? Why Now? - Frances Seymour 2016-12-27

Tropical forests are an undervalued asset in meeting the greatest global challenges of our time—averting climate change and promoting development. Despite their importance, tropical forests and their ecosystems are being destroyed at a high and even increasing rate in most forest-rich countries. The good news is that the science, economics,

and politics are aligned to support a major international effort over the next five years to reverse tropical deforestation. *Why Forests? Why Now?* synthesizes the latest evidence on the importance of tropical forests in a way that is accessible to anyone interested in climate change and development and to readers already familiar with the problem of deforestation. It makes the case to decisionmakers in rich countries that rewarding developing countries for protecting their forests is urgent, affordable, and achievable.

Causes and Consequences of Species Diversity in Forest Ecosystems - Aaron M. Ellison 2019-07-30

This book is a printed edition of the Special Issue *Causes and Consequences of Species Diversity in Forest Ecosystems* that was published in *Forests*