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## Restoration of Degraded Land

## Concepts & Strategies

## Resource Conservation and Food Security

## An Indian Experience

*Concept Publishing Company Papers presented at the International Symposium on Land Degradation: New Trends towards Sustainable Agriculture and the Commonwealth Geographical Bureau Food Security Workshop organized by Dept. of Geography, M.M.H. College, Ghaziabad, India, on 7-12 April, 2002.*

## Land Restoration

## Reclaiming Landscapes for a Sustainable Future

*Academic Press Land Restoration: Reclaiming Landscapes for a Sustainable Future provides a holistic overview of land degradation and restoration in that it addresses the issue of land restoration from the scientific and practical development points of view. Furthermore, the breadth of chapter topics and contributors cover the topic and a wealth of connected issues, such as security, development, and environmental issues. The use of graphics and extensive references to case studies also make the work accessible and encourage it to be used for reference, but also in active field-work planning. Land Restoration: Reclaiming Landscapes for a Sustainable Future brings together practitioners from NGOs, academia, governments, and the United Nations Convention to Combat Desertification (UNCCD) to exchange lessons to enrich the academic understanding of these issues and the solution sets available. Provides accessible information about the science behind land degradation and restoration for those who do not directly engage with the science allowing full access to the issue at hand. Includes practical on-the-ground examples garnered from diverse areas, such as the Sahel, Southeast Asia, and the U.S.A. Provides practical tools for designing and implementing restoration/re-greening processes.*

## Ecology, Environmental Science & Conservation

*S. Chand Publishing Over the years, the scope of our scientific understanding and technical skills in ecology and environmental science have widened significantly, with increasingly greater emphasis on societal issues. In this book, an attempt has been made to give basic concepts of ecology, environmental science and various aspects of natural resource conservation. The topics covered primarily deal*

with environmental factors affecting organisms, adaptations, biogeography, ecology of species populations and species interactions, biotic communities and ecosystems, environmental pollution, stresses caused by toxics, global environmental change, exotic species invasion, conservation of biodiversity, ecological restoration, impact assessment, application of remote sensing and geographical information system for analysis and management of natural resources, and approaches of ecological economics. The main issues have been discussed within the framework of sustainability, considering humans as part of ecosystems, and recognising that sustainable development requires integration of ecology with social sciences for policy formulation and implementation.

## Soils and Landscape Restoration

*Academic Press* Soils and Landscape Restoration provides a multidisciplinary synthesis on the sustainable management and restoration of soils in various landscapes. The book presents applicable knowledge of above- and below-ground interactions and biome specific realizations along with in-depth investigations of particular soil degradation pathways. It focuses on severely degraded soils (e.g., eroded, salinized, mined) as well as the restoration of wetlands, grasslands and forests. The book addresses the need to bring together current perspectives on land degradation and restoration in soil science and restoration ecology to better incorporate soil-based information when restoration plans are formulated. Includes a chapter on climate change and novel ecosystems, thus collating the perspective of soil scientists and ecologists on this consequential and controversial topic Connects science to international policy and practice Includes summaries at the end of each chapter to elucidate principles and key points

## Soil Carbon Sequestration and the Greenhouse Effect

*ASA-CSSA-SSSA* This book is about the concept of the Greenhouse Effect is more than a century old, but today the observed and predicted climate changes. This second edition of Soil Carbon Sequestration and the Greenhouse Effect is essential reading for understanding the processes, properties, and practices affecting the soil carbon pool and its dynamics.

## Modern Trends in Applied Aquatic Ecology

*Springer Science & Business Media* Organisms and environment have evolved through modifying each other over millions of years. Humans appeared very late in this evolutionary time scale. With their superior brain attributes, humans emerged as the most dominating influence on the earth. Over the millennia, from simple hunter-food gatherers, humans developed the art of agriculture, domestication of animals, identification of medicinal plants, devising hunting and fishing techniques, house building, and making clothes. All these have been for better adjustment, growth, and survival in otherwise harsh and hostile surroundings and climate cycles of winter and summer, and dry and wet seasons. So humankind started experimenting and acting on ecological lines much before the art of reading, writing, or arithmetic had developed. Application of ecological knowledge led to development of agriculture, animal husbandry, medicines, fisheries, and so on. Modern ecology is a relatively young science and, unfortunately, there are so few books on applied ecology. The purpose of ecology is to discover the principles that govern relationships among plants, animals, microbes, and their total living and nonliving environmental components. Ecology, however, had remained mainly rooted in botany and zoology. It did not permeate hard sciences, engineering, or industrial technologies leading to widespread environmental degradation, pollution, and frequent episodes leading to mass deaths and diseases.

## Land Utilization in the Central Himalaya

## Problems and Management Options

*Indus Publishing*

## Environment at Crossroads Challenges and Green Solutions

*Scientific Publishers* The global environment has significantly changed due to a number of factors such as industrial pollution, expansion of agricultural land way beyond the fringe forest zones, destruction of virgin forests, loss of quality agricultural lands due to soil erosion, loss of global wildlife and biodiversity, climate change, global warming, devastating forest fires, floods, draughts, melting of glaciers to mention a few. Human or anthropogenic impacts are in turn devastating the planet with our attention being shifted only to the shining aspect of our civilizations. The most alarming fact about this hidden

factor is that they are all directly or indirectly impacted by human activities in some way or other. The present work, *Environment at Crossroads* deals with various environmental problems like climate change, global warming, food security, bioremediation of waste, oil spills, and problems of heavy metal toxicity, control strategies like use of gene therapy, conservation of mangroves, revival of river Vishwamitri and role of plant and animals in biodiversity conservation is discussed.

## Reclamation of Mine-impacted Land for Ecosystem Recovery

*John Wiley & Sons* "Reclamation of Mine-impacted Land for Ecosystem Recovery covers: methods of rejuvenation of mine wasteland including different practices of physical, chemical and ecological engineering methods"--

## Recent Technologies for Disaster Management and Risk Reduction

## Sustainable Community Resilience & Responses

*Springer Nature* This book explains to governments, decision makers and disaster professionals the potential uses of recent technologies for disaster monitoring and risk reduction based on the knowledge and experience of prominent experts/researchers in the relevant fields. It discusses the application of recent technological developments for emerging disaster risks in today's societies and deliberates on the various aspects of disaster risk reduction strategies, especially through sustainable community resilience and responses. This book consists of selected invited papers on disaster management, which focus on community resilience and responses towards disaster risk reduction based on experiences, and closely examines the coordinated research activities involving all stakeholders, especially the communities at risk. Many regions of the world and aspects of disaster risk and its management are covered. It is described how recent technologies will support better understanding and action to reduce the number and impact of disasters in future. The principal audience for this book is researchers, urban planners, policy makers, as well as students.

## Environmental Stress: Indication, Mitigation and Eco-conservation

*Springer Science & Business Media* In the present scenario, stresses induced due to global environmental change have indeed become a focal point of researches and study programmes worldwide. Stress caused to plant life has an important consequence to both, vegetation as such and all other global cycles which sustain this 'living earth'. Unlike other already existing works this volume elucidates the plant-pollutant relationship in a manner that defines not only the drastic effects of pollutants on plants but concomitantly highlights the hitherto less focused areas namely phytoindication, phytoremediation and stress tolerant bioaesthetic development, thus concentrating more on plant than pollutant. The book would help understand the magnitude of environmental stress in the coming years and may play a formative role in defining future research and policy areas along with providing impetus to development of newer eco-technologies. The book shall interest both students and researchers of environmental sciences, ecology, forestry and related disciplines as well as persons and organisations engaged in environmental management and eco-conservation.

## Elements of Biotechnology

*Rastogi Publications*

## Livestock in a Changing Landscape, Volume 1

## Drivers, Consequences, and Responses

*Island Press* The rapidly changing nature of animal production systems, especially increasing intensification and globalization, is playing out in complex ways around the world. Over the last century, livestock keeping evolved from a means of harnessing marginal resources to produce items for local consumption to a key component of global food chains. *Livestock in a Changing Landscape* offers a comprehensive examination of these important and far-reaching trends. The books are an outgrowth of a collaborative effort involving international nongovernmental organizations including the United

Nations Food and Agriculture Organization (UN FAO), the International Livestock Research Institute (ILRI), the Swiss College of Agriculture (SHL), the French Agricultural Research Centre for International Development (CIRAD), and the Scientific Committee for Problems of the Environment (SCOPE). Volume 1 examines the forces shaping change in livestock production and management; the resulting impacts on landscapes, land use, and social systems; and potential policy and management responses. Volume 2 explores needs and draws experience from region-specific contexts and detailed case studies. The case studies describe how drivers and consequences of change play out in specific geographical areas, and how public and private responses are shaped and implemented. Together, the volumes present new, sustainable approaches to the challenges created by fundamental shifts in livestock management and production, and represent an essential resource for policy makers, industry managers, and academics involved with this issue.

## Diversification of Arid Farming Systems

*Scientific Publishers* Over the years, economic considerations have overtaken the sustainability issue. Low and erratic rainfall, frequent droughts, the increasing costs of cultivation, lower compensation of labour and inputs have made farming in the arid regions a challenging enterprise. Employment opportunities in sectors other than agriculture have enticed many to cross the floor. The largest segment of the farming community, however, is constrained to make a living from farm related activities. With the opening of markets for international trade in farm commodities, the competition has toughened for the resource-constrained farmers of the arid regions of the country. On the other hand, useful technologies have been generated by researchers on many alternative systems, which could be adopted. In this scenario, the farmers could benefit greatly by inducing diversification in the farming systems and by strengthening the traditional systems. With this backdrop, a National Symposium on Livelihood Security and Diversified Farming Systems in Arid Region was organized by the Arid Zone Research Association of India at the Central Arid Zone Research Institute, Jodhpur, from January 14-16, 2006. Selected papers presented at the symposium and invited articles have been included in this compendium and are grouped in sections on Diversification, Strengthening the Traditional Farming Systems, Enhancing Resource Use Efficiency, Livestock-based Farming Systems, Value Addition, Socio-economic Issues and Transfer of Technology. Currently, food, water and energy crises are of global concern. The challenge ahead is to strike a balance between basic needs of a large population and to maintain the pace of development. Diversification of farming systems may contribute towards achieving this goal to some extent. It is hoped that the book will provide options for diversification of the existing farming systems and benefit there from.

## Global Guidelines for the Restoration of Degraded Forests and Landscapes in Drylands

### Building Resilience and Benefiting Livelihoods

*Food & Agriculture Organization of the UN (FAO)* These guidelines target two main groups - policymakers and other decision-makers, and practitioners - because both have the power to bring about positive change.

## International Seminar on Coal Science & Technology

*Allied Publishers*

## Environmental Biotechnology

*APH Publishing*

## Traditional Forest-Related Knowledge

## Sustaining Communities, Ecosystems and Biocultural Diversity

*Springer Science & Business Media* Exploring a topic of vital and ongoing importance, *Traditional Forest Knowledge* examines the history, current status and trends in the development and application of traditional forest knowledge by local and indigenous communities worldwide. It considers the interplay between traditional beliefs and practices and formal forest science and interrogates the often uneasy relationship between these different knowledge systems. The contents also highlight efforts to conserve and promote traditional forest management practices that balance the environmental, economic and social objectives of forest management. It places these efforts in the context of recent trends towards the devolution of forest management authority in many parts of the world. The book includes regional chapters covering North America, South America, Africa, Europe, Asia and the Australia-Pacific region. As well as relating the general factors mentioned above to these specific areas, these chapters cover issues of special regional significance, such as the importance of traditional knowledge and practices for food security, economic development and cultural identity. Other chapters examine topics ranging from key policy issues to the significant programs of regional and international organisations, and from research ethics and best practices for scientific study of traditional knowledge to the adaptation of traditional forest knowledge to climate change and globalisation.

## A Manual for Dryland Afforestation and Management

*Scientific Publishers - AFARI* Community-oriented conservation of natural resources and promotion and protection of trees in drylands are examples to deal with climatic adversities. This book provides knowledge on climatic, ecological, social and economic condition of dry areas and lay out approaches and strategies to restore degraded lands. There are 15 chapters and first five deals with physiography of Rajasthan, drylands ecology, problems of land degradation, its economic evaluation and the approaches and strategies of restoration and rehabilitation. Next two chapters describe the problems of sand drift, salinity, water logging and effluent inflicted areas and strategies to control them. Chapters 8-10 deal with seed production, quality planting materials, genetic improvement, propagation and planting techniques. Chapters 11-12 describe methods of rain water harvesting and irrigation, and resources conservation for seed sowing and favouring regeneration and successions. Effective management of pests/diseases in nurseries and plantation, growth and yield prediction equations and models, and people's perception and participation in managing forest resources have been described in last 3 chapters. Purpose of this publication is to strengthen the forest functionaries and readers with wide ranging knowledge on land degradation, desertification and eco-biology of drylands; and methods to restore and rehabilitate degrading forest (lands) to increase forest cover, enhance resilience and people livelihoods and improve environmental conditions. Academician, researchers, forest managers, non-government organizations, extension agents and environmentalists can use it in developing, conserving and managing drylands ecosystems for its long lasting beneficial effects. This book is also useful to policy makers in effective planning of restoring, protecting and conserving dryland's ecological and socioeconomic services.

## Ecological Restoration of Mining Sites of GMDC.

## Land Reclamation and Restoration Strategies for Sustainable Development

## Geospatial Technology Based Approach

*Elsevier* Land Reclamation and Restoration Strategies for Sustainable Development: Geospatial Technology Based Approach, Volume Ten covers spatial mapping, modeling and risk assessment in land hazards issues and sustainable management. Each section in the book explores state-of-art techniques using commercial, open source and statistical software for mapping and modeling, along with case studies that illustrate modern image processing techniques and computational algorithms. A special focus is given on recent trends in data mining techniques. This book will be of particular interest to students, researchers and professionals in the fields of earth science, applied geography, and those in the environmental sciences. Demonstrates a geoinformatics approach to data mining techniques, data analysis, modeling, risk assessment, visualization, and management strategies in different aspects of land use, hazards and reclamation Covers land contamination problems, including effects on agriculture, forestry, and coastal and wetland areas Suggests specific techniques of remediation Explores state-of-art techniques based on commercial, open source, and statistical software for mapping and modeling using modern image processing techniques and computational algorithm

## Forest Landscape Restoration Integrating Natural and Social Sciences

*Springer Science & Business Media* Restoration ecology, as a scientific discipline, developed from practitioners' efforts to restore degraded land, with interest also coming from applied ecologists attracted by the potential for restoration projects to apply and/or test developing theories on ecosystem development. Since then, forest landscape restoration (FLR) has emerged as a practical approach to forest restoration particularly in developing countries, where an approach which is both large-scale and focuses on meeting human needs is required. Yet despite increased investigation into both the biological and social aspects of FLR, there has so far been little success in systematically integrating these two complementary strands. Bringing experts in landscape studies, natural resource management and forest restoration, together with those experienced in conflict management, environmental economics and urban studies, this book bridges that gap to define the nature and potential of FLR as a truly multidisciplinary approach to a global environmental problem. The book will provide a valuable reference to graduate students and researchers interested in ecological restoration, forest ecology and management, as well as to professionals in environmental restoration, natural resource management, conservation, and environmental policy.

## The Environment Encyclopedia and Directory 2001

*Psychology Press* Charts the emerging world awareness of environmental issues. Provides an A-Z glossary of key terms, a comprehensive directory, an extensive bibliography, detailed maps and a Who's Who.

## Ecological Restoration Strategies for Mining Areas of Gujarat

## Agroforestry and Climate Change

## Issues and Challenges

*CRC Press* This volume provides an abundance of valuable information on emerging eco-friendly technology and its potential role in combating climate change via agroforestry. The volume begins by describing the recent understanding of the scenario of climate change and its issues and challenges and provides an in-depth analysis of the potential of agroforestry toward climate change mitigation and adaptation. Chapters address a wide range of techniques and methods for mitigating the negative aspects of climate change through agroforestry, such as vermicomposting, carbon sequestration, horticulture techniques, nutrient sequestration and soil sustainability, conservation of medicinal plant resources, silvipastoral systems, phytoremediation techniques, and more. The book also looks at livelihood security and the role of agroforestry. Key features: Provides updated information and recent developments in the field of climate change and agroforestry Looks at a variety of eco-friendly methods being employed to help mitigate climate change through agroforestry Provides recommendations and suggestions to build harmony between agroforestry and climate change Discusses new insights on the role of agroforestry toward combating climate change as well as maintaining the sustainability of ecosystems

## Advances in Growth Curve and Structural Equation Modeling

## Topics from the Indian Statistical Institute on the 125th Birth Anniversary of PC

## Mahalanobis

*Springer* This book describes recent trends in growth curve modelling research in various subject areas, both theoretical and applied. It explains and explores the growth curve model as a valuable tool for gaining insights into several research topics of interest to academics and practitioners alike. The book's primary goal is to disseminate applications of the growth curve model to real-world problems, and to address related theoretical issues. The book will be of interest to a broad readership: for applied statisticians, it illustrates the importance of growth curve modelling as applied to actual field data; for more theoretically inclined statisticians, it highlights a number of theoretical issues that warrant further investigation.

## Economics of Land Degradation and Improvement – A Global Assessment for Sustainable Development

*Springer* This volume deals with land degradation, which is occurring in almost all terrestrial biomes and agro-ecologies, in both low and high income countries and is stretching to about 30% of the total global land area. About three billion people reside in these degraded lands. However, the impact of land degradation is especially severe on livelihoods of the poor who heavily depend on natural resources. The annual global cost of land degradation due to land use and cover change (LUCC) and lower cropland and rangeland productivity is estimated to be about 300 billion USD. Sub-Saharan Africa (SSA) accounts for the largest share (22%) of the total global cost of land degradation. Only about 38% of the cost of land degradation due to LUCC - which accounts for 78% of the US\$300 billion loss - is borne by land users and the remaining share (62%) is borne by consumers of ecosystem services off the farm. The results in this volume indicate that reversing land degradation trends makes both economic sense, and has multiple social and environmental benefits. On average, one US dollar investment into restoration of degraded land returns five US dollars. The findings of the country case studies call for increased investments into the rehabilitation and restoration of degraded lands, including through such institutional and policy measures as strengthening community participation for sustainable land management, enhancing government effectiveness and rule of law, improving access to markets and rural services, and securing land tenure. The assessment in this volume has been conducted at a time when there is an elevated interest in private land investments and when global efforts to achieve sustainable development objectives have intensified. In this regard, the results of this volume can contribute significantly to the ongoing policy debate and efforts to design strategies for achieving sustainable development goals and related efforts to address land degradation and halt biodiversity loss.

## Wasteland Management and Environment

Proceedings of the National Symposium on Management of Wasteland to Protect Environment : Retrospect and Prospect, held at Bhagalpur during 24-25 April 1998.

## Case Study on the Economic Valuation of the Salinization and Waterlogging as a Result of Inappropriate Irrigation in Pakistan

## Rehabilitation and Restoration of Degraded Forests

*World Conservation Union* Large areas of the world's forests have been lost or degraded and landscapes everywhere are being simplified by current land-use practices. In this publication, Lamb and Gilmour present approaches to restoring and rehabilitating the vast areas of degraded, fragmented and modified forests which cover much of the world. They argue that by applying best practice at the site level it is possible to enhance socio-economic and ecological gains at the landscape level. This book provides an important contribution towards the objectives of the Forest Landscape Restoration approach and is essential reading for practitioners and decision makers involved in forest restoration.

## Forest Resources Resilience and Conflicts

*Elsevier Forest Resources Resilience and Conflicts* presents modern remote sensing and GIS techniques for Sustainable Livelihood. It provides an up-to-date critical analysis of the discourse surrounding forest resources and society, illustrating the relationship between forest resources and the livelihood of local people. The book is organized into four parts consisting of 31 chapters. Each chapter then reviews current understanding, present research, and future implications. Utilizing case studies and novel advances in geospatial technologies, *Forest Resources Resilience and Conflicts* provides a timely synthesis of a rapidly growing field and stimulates ideas for future work, especially considering sustainable development goals. In addition, the book presents the effective contribution of the forestry sector to populations' livelihoods through improved collection of forestry statistics that foster the understanding and integration of the forestry sector in poverty reduction processes and the national economy to enhance its integration in national planning. It is a valuable resource for researchers and students in environmental science, especially those interested in forestry, geography, and remote sensing.

- Demonstrates tools and techniques for measurement, monitoring, mapping, and modeling of forest resources
- Explores state-of-the-art techniques using open source software, statistical programming, and GIS, focusing on recent trends in data mining and machine learning
- Addresses a wide range of issues with both environmental and societal implications
- Provides a global review of the multiple roles of forest resources utilizing case studies to illustrate management strategies and techniques

## Tropical Ecology

## Chemistry of Phytopotentials: Health, Energy and Environmental Perspectives

*Springer Science & Business Media* Since the beginning of human civilization, plants have been our true companions. Plants contribute not only to our existence but also serve us through discovery, design and the treatment of various diseases where there is no satisfactory cure in modern medicine. This has focused Natural Product Chemists to unravel plants therapeutic potential in the light of modern analytical and pharmacological understandings. Presence of multiple active phytochemicals in medicinal plants offers exciting opportunity for the development of novel therapeutics, providing scientific justification for their use in traditional medicines. Non-food plants have been recognized as biofactories for the production of eco-friendly value added materials including agricultural, food products, enzymes, nutraceuticals etc. They have also been widely explored for personal care, industrial products and sources of energy generation. The proven efficacy of botanicals has been appreciated by the scientific community and strengthened plant-human relationship. The synergism in the Phytoproducts, the result of the interaction of two or more moieties, is not simply additive but multiplicative. Recent acceptance of the Food and Drug Administration (US) for herbal-medicine based preparation has renewed interest in Natural Product Research. The year 2011 is declared as the International Year of Chemistry (IYC 2011) by the United Nations Assembly. On this occasion, the present conference CPHEE 2011 aims to offer chemists from diverse areas to come to a common platform to share the knowledge and unveil the chemistry and magic potentials of phytoproducts for the mankind.

## Land Degradation, Desertification and Climate Change

## Anticipating, assessing and adapting to future change

*Routledge* Although much is known about the processes and effects of land degradation and climate change, little is understood about the links between them. Less still is known about how these processes are likely to interact in different social-ecological systems around the world, or how societies might be able to adapt to this twin challenge. This book identifies key vulnerabilities to the combined effects of climate change and land degradation around the world. It identifies triple-win adaptations that can tackle both climate change and land degradation, whilst supporting biodiversity and ecosystem services. The book discusses methods for monitoring effects of climate change and land degradation, and adaptations to these processes. It argues for better co-operation and knowledge exchange, so that the research, land user and policy communities can work together more effectively to tackle these challenges, harnessing the "wisdom of crowds" to assess vulnerability and adapt to climate change and land degradation, whilst protecting livelihoods and biodiversity.



# Sustainable Development and Rehabilitation of Degraded Village Lands in Himalaya Conservation and Management of Biological Resources in Himalaya

*Science Pub Incorporated*

## Handbook of Ecological and Ecosystem Engineering

*John Wiley & Sons* Learn from this integrated approach to the management and restoration of ecosystems edited by an international leader in the field The Handbook of Ecological and Ecosystem Engineering delivers a comprehensive overview of the latest research and practical developments in the rapidly evolving fields of ecological and ecosystem engineering. Beginning with an introduction to the theory and practice of ecological engineering and ecosystem services, the book addresses a wide variety of issues central to the restoration and remediation of ecological environments. The book contains fulsome analyses of the restoration, rehabilitation, conservation, sustainability, reconstruction, remediation, and reclamation of ecosystems using ecological engineering techniques. Case studies are used to highlight practical applications of the theory discussed within. The material in the Handbook of Ecological and Ecosystem Engineering is particularly relevant at a time when the human population is dramatically rising, and the exploitation of natural resources is putting increasing pressure on planetary ecosystems. The book demonstrates how modern scientific ecology can contribute to the greening of the environment through the inclusion of concrete examples of successful applied management. The book also includes: A thorough discussion of ecological engineering and ecosystem services theory and practice An exploration of ecological and ecosystem engineering economic and environmental revitalization An examination of the role of soil meso and macrofauna indicators for restoration assessment success in a rehabilitated mine site A treatment of the mitigation of urban environmental issues by applying ecological and ecosystem engineering A discussion of soil fertility restoration theory and practice Perfect for academic researchers, industry scientists, and environmental engineers working in the fields of ecological engineering, environmental science, and biotechnology, the Handbook of Ecological and Ecosystem Engineering also belongs on the bookshelves of environmental regulators and consultants, policy makers, and employees of non-governmental organizations working on sustainable development.

## Restoration Priorities and Strategies

# Restoration to Protect Biodiversity and Enhance Green Infrastructure : Nordic Examples of Priorities and Needs for Strategic Solutions

*Nordic Council of Ministers*

## Ecological Restoration Law Concepts and Case Studies

*Routledge* Ecological restoration is as essential as sustainable development for the health of the biosphere. Restoration, however, has been a low priority of most countries' environmental laws, which tend to focus narrowly on rehabilitation of small, discrete sites rather than the more ambitious recovery of entire ecosystems and landscapes. Through critical theoretical perspectives and topical case studies, this book's diverse contributors explore a more ambitious agenda for ecological restoration law. Not only do they investigate current laws and other governance mechanisms; they also consider the philosophical and methodological bases for the law to take ecological restoration more seriously. Through exploration of themes relating to time, space, geography, semiotics, social justice, and scientific knowledge, this book offers innovative and critical insights into ecological restoration law.