changes in land use and land cover a global perspective

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The findings of the studies investigate the conflicts behind the land tenure and land uses in different countries of the world and examines existing policies and the reasons behind changes in them. Ultimately, the book provides readers with knowledge on how land can be managed in a sustained manner, how landscape models are helpful for predicting and determining future land uses, how land can be managed with the best architectural measures, and how urban forestry is helpful for better environmental management and adapting or mitigating climate change effects. Land users, agriculturalists, urban planners, policymakers, government officials, researchers, academicians, and students looking to improve their understanding of this topic for better use of land in the future will find this book to be an asset to their current research.

Land-Use and Land-Cover Change - Eric F. Lambin - 2008-01-08
This book presents recent estimates on the rate of change of major land classes. Aggregated globally, multiple impacts of local land changes are shown to significantly affect central aspects of Earth System functioning. The book offers innovative developments and applications in the fields of modeling and scenario construction. Conclusions are also drawn about the most pressing implications for the design of appropriate intervention policies.

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Examining International Land Use Policies, Changes, and Conflicts - Hasnat, G. N. Tanjina - 2020-11-06
Though conflicts continue to arise over land use and land cover changes, the conversion of forest land to cropland or other land uses such as housing and urban development have been on the rise in recent years. Decisions regarding land use and land cover influence climate change as well as various natural processes. While proper changes can minimize the effects and speed of climatic changes, the continued adverse changes may be accelerating the deterioration of the world’s condition. Examining International Land Use Policies, Changes, and Conflicts presents the latest research on the present status of land use and land cover changes throughout the world in order to determine appropriate land use policies that can protect earth’s present and future condition. The findings of the studies investigate the conflicts behind the land tenure and land uses in different countries of the world and examines existing policies and the reasons behind changes in them. Ultimately, the book provides readers with knowledge on how land can be managed in a sustained manner, how landscape models are helpful for predicting and determining future land uses, how land can be managed with the best architectural measures, and how urban forestry is helpful for better environmental management and adapting or mitigating climate change effects. Land users, agriculturalists, urban planners, policymakers, government officials, researchers, academicians, and students looking to improve their understanding of this topic for better use of land in the future will find this book to be an asset to their current research.

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**Population and Land Use in Developing Countries** - National Research Council - 1993-02-01
This valuable book summarizes recent research by experts from both the natural and social sciences on the effects of population growth on land use. It is a useful introduction to a field in which little quantitative research has been conducted and in which there is a great deal of public controversy. The book includes case studies of African, Asian, and Latin American countries that demonstrate the varied effects of population growth on land use. Several chapters address the following timely questions: What is meant by land use change? Why are ecological research and population studies so different? What are the implications for sustainable growth in agricultural production? Although much work remains to be done in quantifying the causal connections between demographic and land use changes, this book provides important insights into those connections, and it should stimulate more work in this area.

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Property Rights and Climate Change explores the multifarious relationships between different types of climate-driven environmental changes and property rights. This original contribution to the literature examines such climate changes through the lens of property rights, rather than through the lens of land use planning. The inherent assumption pursued is that the different types of environmental changes, with their particular effects and impact on land use, share common issues regarding the relation between the social construction of land via property rights and the dynamics of a changing environment. Making these common issues explicit and discussing the different approaches to them is the central objective of this book. Through examining a variety of cases from the Arctic to the Australian coast, the contributors take a transdisciplinary look at the winners and losers of for further research. This book is essential reading for lawyers, planners, property rights experts and environmentalists.

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**Impact of Climate Change, Land Use and Land Cover, and Socio-economic Dynamics on Landslides** - Raju Sarkar - 2022-01-04
This book discusses the impact of climate change, land use and land cover, and socio-economic dynamics on landslides in Asian countries. Scholars recently have brought about a shift in their focus regarding triggering factors for landslides, from rainfall or earthquake to claiming rapid urbanization, extreme population pressure, improper land use planning, illegal hill cutting for settlements and indiscriminate deforestation. This suggests that the occurrence or probabilities of landslides are shaped by both climate-related and non-climate-related anthropogenic factors. Among these issues, land use and land cover change or improper land use planning is one of the key factors. Further climate change shapes the rainfall pattern and intensity in different parts of the world, and consequently rainfall-triggered landslides have increased. These changes cause socio-economic changes. Consequently, socio-economic and lifestyle changes lead to changes in land use and climate change. All these changes in land use, climate and socio-economic aspects are dynamics in nature and shape landslide risks in Asian countries, where they are given serious attention by governments, disaster management professionals, researchers and academicians. This book comprises 21 chapters divided into three major sections highlighting the effect of climate change on landslide incidence with the influence on vegetation and socio-economic aspects. The sections address how climate change and extreme events have triggered landslides. The advances in geospatial techniques with the focus on land use and land cover change along with the effect on socio-economic aspects are...
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Land Use Change - Richard J. Aspinall - 2007-12-14

Changes in the use of land reflect a variety of environmental and social factors, necessitating an equally varied suite of data to be used for effective analysis. While remote sensing, both from satellites and air photos, provides a central resource for study, socio-economic surveys, censuses, and map sources also supply a wealth of valid information. Land Use Change: Science, Policy, and Management presents spatial theories and methodologies that support an integrated approach to the analysis of land use change. Focusing on spatial representation and modeling, this book addresses such important scientific issues as the dynamics of change, integration and feedback between system elements, and scale issues in space and time.

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Microbes in Land Use Change Management details the various roles of microbial resources in management of land uses and how the microbes can be used for the source of income due to their cultivation for the purpose of biomass and bioenergy production. Using various techniques, the disturbed and marginal lands may also be restored eco-friendly in present era to fulfill the feeding needs of mankind around the globe. Microbes in Land Use Change Management provides standard and up to date information towards the land use change management using various microbial technologies to enhance the productivity of agriculture. Needless to say that Microbes in Land Use Change Management also considers the areas including generation of alternative energy sources, restoration of degraded and marginal lands, mitigation of global warming gases and next-generation omics technique etc. Land use change affects environment conditions and soil microbial community. Microbial population and its species diversity have influence in maintaining ecosystem balance. The study of changes of global warming gases also explored.

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Climate Change and Land - Groupe d'experts intergouvernemental sur l'évolution du climat - 2019

Land Use Changes in Europe - F.M. Brouwer - 2012-12-06
The patterns of land use that have evolved in Europe reflect the boundaries set by the natural environment and socio-economic responses to the needs of the population. Over the centuries man has been able to overcome increasingly the constraints placed on land use by the natural environment through the development of new technologies and innovations, driven by an increasing population and rising material expectations. However, activities are still ultimately constrained by natural limitations such as climatic characteristics and associated edaphic and vegetational features. A major problem for land management, in its broadest sense, can be a reluctance to foresee the consequent ecological changes. This means that mitigating strategies will not be implemented in time to prevent environmental degradation and social hardship, although in many parts of Europe, over some centuries, demands have been met in a sustainable way, by sound, prudent and temperate expectations that have dictated management regimes. The management of land in Europe has always been a complex challenge: land is the primary, though finite resource. Decisions regarding the use of land and manipulation of ecosystem dynamics today may affect the long-term primary productivity of the resource.

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Land Cover and Land Use Change on Islands - Stephen J. Walsh - 2020-07-16
Globalization is not a new phenomenon, but it is posing new challenges to humans and natural ecosystems in the 21st century. From climate change to increasingly mobile human populations to the global economy, the relationship between humans and their environment is being modified in ways that will have long-term impacts on ecological and services, population vulnerability, and sustainability. These changes and challenges are perhaps nowhere more evident than in island ecosystems. Buffeted by rising ocean temperatures, extreme weather events, sea-level rise, climate change, tourism, population migration, invasive species, and resource limitations, islands represent both the greatest vulnerability to globalization and also the greatest scientific opportunity to study the significance of global changes on ecosystem processes, human-environment interactions, conservation, environmental policy, and island sustainability. In this book, we study islands through the lens of Land Cover/Land Use Change (LCLUC) and the multi-scale and multi-thermic drivers of change. In addition to assessing the key processes that shape and re-shape island ecosystems and their land cover/land use changes, the book highlights measurement and assessment methods to characterize patterns and trajectories of change and models to examine the social-ecological drivers of change on islands. For instance, chapters report on the results of a meta-analysis to examine trends in published literature on islands, a satellite images time-series to track changes in urbanization, social surveys to support household analyses, field sampling to represent the state of resources and their limitations on islands, and dynamic systems models to link socio-economic data to LCLUC patterns. The authors report on a diversity of islands, conditions, and circumstances that affect LCLUC patterns and processes, often informed through perspectives rooted, for instance, in conservation, demography, ecology, economics, geography, policy, and sociology.

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Bioenergy and Land Use Change - Zhangcai Qin - 2017-12-11

Although bioenergy is a renewable energy source, it is not without impact on the environment. Both the cultivation of crops specifically for use as biofuels and the use of agricultural byproducts to generate energy changes the landscape, affects ecosystems, and impacts the climate. Bioenergy and Land Use Change focuses on regional and global assessments of land use change related to bioenergy and the environmental impacts. This interdisciplinary volume provides both high level reviews and in-depth analyses on specific topics. Volume highlights include: Land use change concepts, economics, and modeling Relationships between bioenergy and land use change Impacts on soil carbon, soil health, water quality, and the hydrologic cycle Impacts on natural capital and ecosystem services Effects of bioenergy on direct and indirect greenhouse gas emissions Biogeochemical and biogeophysical climate regulation Uncertainties and challenges associated with land use change quantification and environmental impact assessments Bioenergy and Land Use Change is a valuable resource for professionals, researchers, and graduate students from a wide variety of fields including energy, economics, ecology, geography, agricultural science, geoscience, and environmental science. Read an interview with the editors to find out more: https://eos.org/editors-vox/bioenergies-impacts-on-the-landscape

Economics of Rural Land-Use Change - Kevin J. Boyle - 2017-03-02

Public concern over land management has never been greater. This book provides a broad overview of the economics of rural land-use change, drawing attention to the meaningful role economic analysis can play in resolving public concern and supporting future, pro-active land management strategies in rural areas. The book’s breadth distinguishes it from other recent texts, as it jointly offers rigorous treatments of theoretical and empirical models of rural land-use change and practical discussions of applications and relevant methods. Chapters are specifically designed to demonstrate the types of analysis that can answer the types of methods that might be employed to answer these questions, and the types of public policy decisions that may be supported by such analysis. The book makes a significant contribution to contemporary land-use research, highlighting the key methodological and public policy issues that will be central to future research on the economics of rural land-use change.

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Land Cover and Land Use Change on Islands - Stephen J. Walsh - 2020-08-28

Globalization is not a new phenomenon, but it is posing new challenges to humans and natural ecosystems in the 21st century. From climate change to increasingly mobile human populations to the global economy, the relationship between humans and their environment is being modified in ways that will have long-term impacts on

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Globalization is not a new phenomenon, but it is posing new challenges to humans and natural ecosystems in the 21st century. From climate change to increasingly mobile human populations to the global economy, the relationship between humans and their environment is being modified in ways that will have long-term impacts on ecological health, biodiversity, ecosystem goods and services, population vulnerability, and sustainability. These changes and challenges are perhaps nowhere more evident than in island ecosystems. Buffeted by rising ocean temperatures, extreme weather events, sea-level rise, climate change, tourism, population migration, invasive species, and resource limitations, islands represent both the greatest vulnerability to globalization and also the greatest scientific opportunity to study the significance of global changes on ecosystem processes, human-environment interactions, conservation, environmental policy, and island sustainability. In this book, we study islands through the lens of Land Cover/Land Use Change (LCLUC) and the multi-scale and multi-thematic drivers of change. In addition to assessing the key processes that shape and re-shape island ecosystems and their land cover/land use changes, the book highlights measurement and assessment methods to characterize patterns and trajectories of change and models to examine the social-ecological drivers of change on islands. For instance, chapters report on the results of a meta-analysis to examine trends in published literature on islands, a satellite image time-series to track changes in urbanization, social surveys to support household analyses, field sampling to represent the state of resources and their limitations on islands, and dynamic systems models to link socio-economic data to LCLUC patterns. The authors report on a diversity of islands, conditions, and circumstances that affect LCLUC patterns and processes, often informed through perspectives rooted, for instance, in conservation, demography, ecology, economics, geography, policy, and sociology.

Land Use Change Impacts on Soil Processes - Francis Q Brearley - 2015-09-29

This book examines the effects that land-use changes (notably agricultural intensification, logging, soil erosion, soil cover, agricultural and urban mining) have on soil characteristics and processes in tropical and savannah environments. It covers a range of geographical regions and environments as impacts of land use change are often site specific. The effects of land use change on various aspects of the soil ecosystem from both a chemical and biological perspective will be examined.

Choosing to Succeed - John Nolon - 2021-04-15

About the Book: Land use climate bubbles are popping up throughout the nation at an alarming rate, creating an economic crisis that will be more damaging that that of the housing bubble of 2008. The costs to ecosystems and low- and moderate-income households are equally severe. These bubbles, where land and building values are declining, provide extensive, objective evidence that climate change is real and must be dealt with on the ground. And it sidelines the ideological battles over the political response and instead requires us to focus on the practical question: what can we do to respond? Climate action seeks to avoid the harm we can’t avoid and to manage the harm we can’t avoid. Local leaders understand the urgency of the crisis and are highly motivated to learn how to prevent and mitigate its consequences. This book describes how the local land use legal system can leverage state and local assistance to reduce per capita carbon emissions as an important and now recognized component of global efforts to manage climate change. The tools and techniques presented in the book are available to the nation’s 40,000 local governments, if led by courageous leaders choosing to succeed in this epic battle. About the Author: John R. Nolon is Distinguished Professor of Law at the Elisabeth Haub School of Law at Pace University where he teaches property, land use, dispute resolution, and sustainable development law courses and is Counsel to the Law School's Land Use Law Center which he founded in 1993. He served as Adjunct Professor of land use law and policy at the Yale School of Forestry and Environmental Studies from 2001-2016.

Soil Management and Climate Change - Maria Angeles Munoz - 2017-10-27

Soil Management and Climate Change: Effects on Organic Carbon, Nitrogen Dynamics, and Greenhouse Gas Emissions provides a state of the art overview of recent findings and future research challenges regarding physical, chemical and biological processes controlling soil carbon, nitrogen dynamic and greenhouse gas emissions from soils. This book is for students and academics in soil science and environmental science, land managers, public administrators and legislators, and will increase understanding of organic matter preservation in soil and mitigation of greenhouse gas emissions. Given the central role soils play on the global carbon (C) and nitrogen (N) cycles and its impact on greenhouse gas emissions, there is an urgent need to increase our common understanding about sources, mechanisms and processes that regulate organic matter preservation and stabilization, and to identify those management practices and processes which mitigate greenhouse gas emissions, helping increase organic matter stabilization with suitable supplies of available N. Provides the latest findings about soil organic matter stabilization and greenhouse gas emissions Covers the effect of practices and management on soil organic matter stabilization Includes information for readers to select the most suitable management practices to increase soil organic matter stabilization

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Land Use, Land-use Change, and Forestry - Mark P. McHenry - 2015

Land Use, Land-use Change and Forestry includes research from selected international authors and institutions that consider land-use management to be an important aspect in the context of climate change and development. Our team of editors and authors hope to add a valuable contribution to the literature to address global climate change in relation to agricultural-forestry ecosystems and development in vulnerable locations. Land Use, Land-use Change and Forestry book chapters include a wide variety of topics on changes in land use practices, carbon sequestration, forest degradation, as well as policies that affect land use and development. It also includes a description of the current state of land use, land-use change and forestry in South Asian countries (Chapter 1); an evaluation of biodiversity and peoples’ willingness to pay (Chapter 2); modelling of carbon sequestration in forests (Chapter 3); trade-off analysis in economic and environmental objectives (Chapter 4); use of radar imagery in detecting forest degradation (Chapter 5); assessment of carbon sequestration in woodlots (Chapter 6); solutions for improved survival of ruminants in arid and semi-arid environments and associated carbon sequestration (Chapter 7); policy interventions for land use changes (Chapter 8); accomplishing land use change from subsistence to commercial farming in Mozambique (Chapter 9); and an international and multi-sectoral approach for partnering to achieve positive agricultural developmental land use change (Chapter 10). Our team of editors, reviewers, and authors are honored to be part of this project; truly an example of international cooperation and articulation within the climate change community. The chapters and authors of Land Use, Land-use and Forestry were carefully selected through a rigorous peer review process considering publication records, relevant and high quality contributions to this topic, and priming international cooperation. For this book and its contents, the intended audience includes the international climate change community including: contributors to the UNFCCC-IPCC process, policymakers, consultants, project developers, researchers and their institutions. Land Use, Land-use Change and Forestry aims to be a valuable addition to multidisciplinary and international cooperation efforts (policies, cultural practices, new technologies, and adaptation measures), to development of land use policies, governmental and nongovernmental agencies worldwide and the general public. The editors of Land Use, Land-use and Forestry and Land Use, Land-use Change and Forestry believe the book is an effective tool to help the international community progress in understanding and management of land use changes in addressing climate change through international collaboration and cooperation.

Land Use, Land-use Change, and Forestry - Mark P. McHenry - 2015

Use Change and Forestry aims to be a valuable addition to multidisciplinary and international cooperation efforts on soil organic matter stabilization with suitable supplies of available N. Provides the latest findings on forested systems. It covers the effect of practical management on soil organic matter stabilization. Includes information for readers to select the most suitable management practices to increase soil organic matter stabilization.

Growing Populations, Changing Landscapes - Chinese Academy of Sciences - 2001-06-12

As the world’s population exceeds an incredible 6 billion people, governments and scientists everywhere are concerned about the prospects for sustainable development. The science academies of the three most populous countries have joined forces in an unprecedented effort to understand the linkage between population growth and land-use change, and its implications for the future. By examining six sites ranging from agricultural to intensely urban to areas in transition, the multinational study panel asks how population growth and consumption directly cause land-use change, and explore the natural forces of the drivers of the transformations. Growing Populations, Changing Landscapes explains how disparate government policies with unintended consequences and globalization effects that link local land-use changes to consumption patterns and labor policies in distant countries can be far more influential than simple numerical population increases. Recognizing the importance of these linkages can be a significant step toward more effective environmental management.

Growing Populations, Changing Landscapes - Chinese Academy of Sciences - 2001-06-12

The interaction between environmental change and human activities is complex, requiring the concepts and tools of a number of disciplines for its effective analysis. Land-use and land-cover change has only recently become a topic susceptible to scientific research, as these concepts and tools have been developed and made available. Rooted in a broad community concerned with global change, systematic research has begun into land-use systems at different scales and interactions, and their links with global cycles of water, nitrogen and carbon are being explored. Partly based on research initiated by the Dutch National Research Programme on Global Air Pollution and Climate Change (NRP), this book touches on various land-use and land-cover issues in relation to global environmental change. In addition to the biogeochemical cycles, land as a car rier for functions of economic activities, food and fibre production and energy production via biomass are discussed. Crucial in studying land use is human behaviour and man-environment interaction at different scales. Land-use and land-cover change is an important contributor of greenhouse gases as these activities directly interfere with the carbon, nitrogen and water cycles. These cycles are connected through numerous feedback loops. The interface of land-use and climate is essentially determined by the interaction of man and the environment. Man uses land primarily to produce food; a relatively small area is needed for urban development.

Global Environmental Change and Land Use - Han Haarman - 2013-03-14

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Telecoupling - Cecilia Frits - 2019-03-21

This book presents a comprehensive exploration of the emerging concept and framework of telecoupling and how it can help create a better understanding of land-use change in a globalised world. Land-use change is increasingly characterised by a spatial disconnect between its main environmental, socioeconomic and political drivers and the main impacts and outcomes of those changes. The authors examine how this separation of the production and consumption of land-based resources is driven by population growth, urbanisation, climate change, and biodiversity and carbon conservation efforts. Identifying and fostering more sustainable, just and equitable modes of land use and intervening in unsustainable ones thus constitute substantial, almost overwhelming challenges for science and policy. This book brings together leading scholars on land-use change and sustainability to systematically discuss the relevance of telecoupling research in addressing these challenges. The book presents an overview of the telecoupling approach, reflects on a number of the most pressing issues surrounding land-use change today and discusses the agenda for advancing understanding on sustainable land-use change through interdisciplinary and transdisciplinary research.

Impacts of Land-use Change on Ecosystem Services - Jinyan Zhan - 2015-08-10

This book aims to systematically elaborate how land-use change directly or indirectly exerts impacts on the ability of ecosystems to provide services for human society. The relationship between land use, ecosystem services and human well-being is a hot topic, and there have been some important achievements in this field, but its continuing growth means that it warrants further research. The unique viewpoint, the scientific analysis methods and the precise language of this book make it not only a valuable guide for professors conducting research, but also a reference resource to help governments make decisions on relevant policies. Prof. Jinyan Zhan is an associate professor at the School of Environment, Beijing Normal University, China.

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Impact of Climate Change, Land Use and Land Cover, and Socio-economic Dynamics on Landslides - Raja Sarkar - 2022-01-03

This book discusses the impact of climate change, land use and land cover, and socio-economic dynamics on landslides in Asian countries. Scholars recently have brought about a shift in their focus regarding triggering factors for landslides, from rainfall or earthquake to claiming rapid urbanization, extreme population pressure, improper land use planning, illegal hill cutting for settlements and indiscriminate deforestation. This suggests that the occurrence or probabilities of landslides are shaped by both climate-related and non-climate-related anthropogenic factors. Among these issues, land use and land cover change or improper land use planning is one of the key factors. Further climate change shapes the rainfall pattern and intensity in different parts of the world, and consequently rainfall-triggered landslides have increased. These changes cause socio-economic changes. Conversely, socio-economic and lifestyle changes enhance inappropriate land use and climate change. All these changes in a global, climate and socio-economic dynamics in nature and shape landslide risks in Asian countries, where they are given serious attention by governments, disaster management professionals, researchers andacademicians. This book comprises 21 chapters divided into three major sections highlighting the effect of climate change on landslide incidence with the influence on vegetation and socio-economic aspects. The sections address how climate change and extreme events have triggered landslides. The advances in geospatial techniques with the focus on land use and land cover change along with the effect on socio-economic aspects are also explored.

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Landscape and Land Capacity - Yeqiao Wang - 2020-05-19

Authorized by world-class scientists and scholars, The Handbook of Natural Resources, Second Edition, is an excellent reference for understanding the consequences of changing natural resources to the degradation of ecological integrity and the sustainability of life. Based on the content of the bestselling and CHOICE-awarded Encyclopedia of Natural Resources, this new edition demonstrates the major challenges that the society is facing for the sustainability of all well-being on the planet Earth. The experience, evidence, methods, and models used in studying natural resources are presented in six stand-alone volumes, arranged along the main systems of land, water, and air. It reviews state-of-the-art knowledge, highlights advances made in different areas, and provides guidance for the appropriate use of remote sensing and geospatial data with field-based measurements in the study of natural resources. Volume 2, Landscape and Land Capacity, covers soils and landscape issues, their diversity and importance, and how soils are related to the landscapes in which they form. It includes discussions on land conservation, land-use and land-cover changes, and urban environments and unravels the complex bond between humans and soils. New in this edition are discussions on habitat conservation and planning, landscape epidemiology and vector-borne disease, and landscape patterns and changes. This volume demonstrates the key processes, methods, and models used through several practical case studies from around the world. Written in an easy-to-reference manner, The Handbook of Natural Resources, Second Edition, as individual volumes or as a
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