

Lecture Notes On Environmental And Natural Resources Economics

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Economics of the Environment - Horst Siebert 2013-03-09

"The labor of nature is paid, not because she does much, but because she does little. In proportion as she becomes niggardly in her gifts, she exacts a greater price for her work. Where she is munificently benefici cent, she always works gratis." David Ricardo * This book interprets nature and the environment as a scarce resource. Whereas in the past people lived in a paradise of environmental superabundance, at pre sent environmental goods and services are no longer in ample supply. The envi ronment fulfills many functions for the economy: it serves as a public-con sumption good, as a provider of natural resources, and as receptacle of waste. These different functions compete with each other. Releasing more pollutants into the environment reduces environmental quality, and a better environmen tal quality implies that the environment's use as a receptacle of waste has to be restrained. Consequently, environmental disruption and environmental use are by nature allocation problems. This is the basic message of this book.

Research Tools in Natural Resource and Environmental Economics - Amitrajeet A. Batabyal 2011

Key Features:First book of its kind in the fieldExamines and analyzes how key tools are used to conduct theoretical and empirical research in natural resource and environmental economics in contemporary timesCompiles various articles and accounts concerned with the

relevant pedagogical discussionWritten by recognized experts and prominent international researchers in the field.

Assigning Economic Value to Natural Resources - National Research Council 1994-02-01

There has been a lot of discussion among policymakers, particularly within the Clinton Administration, about how to make U.S. economic indicators, such as GNP, more accurately reflect the state of the environment. This book explores the major issues and controversies involved in incorporating natural resources and the environment into economic accounts. The first section of the volume, based largely on a three-day workshop of experts in the field, explains the possibilities and pitfalls in so-called "green" accounting. This is followed by a selection of nine individually authored papers, including one by Nobel prize winner Robert Solow, that probe scientific aspects of this issues in greater depth.

Lecture Notes in Water Policy - David Lewis Feldman 2022

Freshwater is our planet's most precious resource -- essential for life itself. Despite this fact, many people across our planet face difficulties finding safe, clean, potable water. A U.S. State Department report contends that the world's thirst for water may become a human security crisis by 2040. The World Bank reports many developing nations face catastrophe from intensive irrigation, urbanization, and deteriorating infrastructure. Also, numerous

reports contend that in many places un-treated wastewater is still released directly into the environment. This is particularly true in low-income countries, which on average treat less than 10% of their wastewater discharges. In short, we face three imminent challenges regarding freshwater: (1) demands by agriculture, cities, industry, and energy production are increasing; (2) severe pollution from various contaminants and growing withdrawals are limiting the capacity of waterways to dilute contaminants -- threatening human and aquatic life; and, (3) climate change will cause periods of frequent and severe droughts -- punctuated by acute periods of flooding. The goal of this book is to illuminate how the governance of freshwater is a political, social, economic, cultural, and ecological challenge. The management and provision of water are not merely technical problems whose resolution hinges on hydrological principle, cost, or engineering feasibility. They are products of decisions made by governments, businesses, and interest groups that exercise control over who has access to water, how they use it, and in what condition they receive it. It discusses basic knowledge about water supply and quality; the evolution of water policy in different societies; the importance of water to human and environmental health; the role of law, politics, and markets in its allocation, use, and protection; and, the importance of ethics in its equitable provision.

Resource and Environmental Economics - Clement A Tisdell 2009-12-17

This important book deals with the essential principles of resource and environmental economics, provides applications to contemporary issues in this field, and outlines and assesses policies being used or proposed for managing the use of environmental and natural resources. Covering specific contemporary topics such as agriculture and the environment, water use, greenhouse gas management, biodiversity conservation, tourism and the environment, and environmental economics and health, leading issues in resource and environmental economics are outlined and analyzed in an innovative manner. Institutional economics (both new and traditional) is applied and compared with other approaches such as

neoclassical economics, behavioral economics and the Austrian School of Economics. This heterogeneous, multi-perspective approach enables problems to be considered from several different angles, thus enhancing the reader's comprehension of the subject matter.

Furthermore, using minimal technical jargon, the book takes into account aspects of modern economic analysis such as the costs of and constraints on decision-making and the transaction costs involved in policy implementation.

Environmental Regulation of Oil and Gas - Zhiguo Gao 1998-09-10

This book contains in-depth articles written by scholars, international lawyers, and practitioners from around the world. It deals with the environmental aspect of the hydrocarbon cycle in general and oil and gas exploration and production in particular. Its main thrust is management of environmental legal risks and issues in upstream operations.

Natural Resource Economics: The Essentials - Tom Tietenberg 2019-08-01

Natural Resource Economics: The Essentials offers a policy-oriented approach to the increasingly influential field of natural resource economics that is based upon a solid foundation of economic theory and empirical research. Students will not only leave the course with a firm understanding of natural resource economics, but they will also be exposed to a number of case studies showing how underlying economic principles provide the basis for specific natural resource policies. Including current data and research studies, this key text also highlights what insights can be derived from the actual experience. Key features include: Extensive coverage of the major issues including energy, recyclable resources, water policy, land conservation and management, forests, fisheries, other ecosystems, and sustainable development; Introductions to the theory and method of natural resource economics including externalities, experimental and behavioral economics, benefit-cost analysis, and methods for valuing the services provided by the environment; Boxed 'Examples' and 'Debates' throughout the text which highlight global examples and major points for deeper discussions. The text is fully supported with end-

of-chapter summaries, discussion questions, and self-test exercises in the book, as well as with multiple-choice questions, simulations, references, slides, and an instructor's manual on the Companion Website. This text is adapted from the best-selling Environmental and Natural Resource Economics, 11th edition, by the same authors.

Markets and the Environment, Second Edition - Nathaniel O. Keohane 2016-01-05

"A clear grasp of economics is essential to understanding why environmental problems arise and how we can address them. ... Now thoroughly revised with updated information on current environmental policy and real-world examples of market-based instruments The authors provide a concise yet thorough introduction to the economic theory of environmental policy and natural resource management. They begin with an overview of environmental economics before exploring topics including cost-benefit analysis, market failures and successes, and economic growth and sustainability. Readers of the first edition will notice new analysis of cost estimation as well as specific market instruments, including municipal water pricing and waste disposal. Particular attention is paid to behavioral economics and cap-and-trade programs for carbon."--Publisher's web site.

Environmental and Natural Resources Economics - Steven C. Hackett 1998

Integrating aspects of philosophy, political science, and some environmental science, this text provides a multidisciplinary approach to environmental economics and natural resources policy. Included is a chapter on value systems and the role of ethics.

Natural Resource Economics - Jon M. Conrad 1987-11-27

In this book, Jon Conrad and Colin Clark develop the theory of resource economics.

Environmental Economics and Policy - Lynne Lewis 2019-11-26

Environmental Economics and Policy is a best-selling text for environmental economics courses. Offering a policy-oriented approach, it introduces economic theory, empirical fieldwork, and case studies that show how underlying economic principles provided the foundation for environmental policies. Key features include:

Introductions to the theory and method of environmental economics, including externalities, benefit-cost analysis, valuation methods, and ecosystem goods and services. Extensive coverage of the major issues including climate change mitigation and adaptation, air and water pollution, and environmental justice. Boxed "Examples" and "Debates" throughout the text, which highlight global examples and major talking points. This text will be of use to undergraduate students of economics. Students will leave the course with a global perspective of how environmental economics has played and can continue to play a role in promoting fair and efficient environmental management. The text is fully supported with end-of-chapter summaries, discussion questions, and self-test exercises in the book. Additional online resources include references, as well as PowerPoint slides for each chapter.

Lecture Notes on Resource and Environmental Economics - Anthony C. Fisher 2020-06-26

This book, based on lectures on natural and environmental resource economics, offers a nontechnical exposition of the modern theory of sustainability in the presence of resource scarcity. It applies an alternative take on environmental economics, focusing on the economics of the natural environment, including development, computation, and potential empirical importance of the concept of option value, as opposed to the standard treatment of the economics of pollution control. The approach throughout is primarily conceptual and theoretical, though empirical estimation and results are sometimes noted. Mathematics, ranging from elementary calculus to more formal dynamic optimization, is used, especially in the early chapters on the optimal management of exhaustible and renewable resources, but results are always given an economic interpretation. Diagrams and numerical examples are also used extensively. The first chapter introduces the classical economists as the first resource economists, in their discussion of the implications of a limited natural resource base (agricultural land) for the evolution of the wider economy. A later chapter returns to the same concerns, along with others stimulated by the energy and environmental

"crises" of the 1970s and beyond. One section considers alternative measures of resource scarcity and empirical findings on their behavior over time. Another introduces the modern concept of sustainability with an intuitive development of the analytics. A chapter on the dynamics of environmental management motivates the concept of option value, shows how to compute it, then demonstrates its importance in an illustrative empirical example. The closing chapter, on climate change, first projects future changes and potential catastrophic impacts, then discusses the policy relevance of both option value and discounting for the very long run. This book is intended for resource and environmental economists and can be read by interested graduate and advanced undergraduate students in the field as well.

Environmental and Natural Resource Mathematics - Robert W. McKelvey 1985

This volume is the proceedings of the AMS Short Course held in Eugene, Oregon in August 1984. The discussions explored the fascinating role that mathematicians and mathematically trained scientists have played throughout the development of the discipline of natural resource modeling, and in economic theory in general. Also discussed were ways in which concepts and techniques of modeling might best be incorporated into graduate and undergraduate mathematics education. The term "natural resources" should be interpreted broadly, encompassing air and water resources, land and soil, minerals and oil, energy resources, and such biological resources as fisheries, agricultural crops, forests, and wildlife. The objective of the Short Course, and of this volume, is to demonstrate that, despite the great diversity of kinds of natural resources, a coherent theory has developed concerning the efficient and conservative management of resources, and that this theory has a substantial mathematical component.

Managing Human, Environment, and Natural Resources for Sustainability -

Universiti Malaysia Terengganu. International Annual Symposium on Sustainability Science and Management 2009

This volume contains the Proceeding of the UMT 8th Annual Symposium on Sustainability Science and Management, which was held in Kuala

Terengganu from May 3rd to 4th in 2009. About 200 participants from local and international countries attended the symposium and 150 papers were presented, 110 of them as oral presentations and others as posters.

Fundamental Aspects of Turbulent Flows in Climate Dynamics - Freddy Bouchet 2020

"This book collects the text of the lectures given at the Les Houches Summer School on "Fundamental aspects of turbulent flows in climate dynamics", held in August 2017. Leading scientists in the fields of climate dynamics, atmosphere and ocean dynamics, geophysical fluid dynamics, physics and non-linear sciences present their views on this fast growing and interdisciplinary field of research, by venturing upon fundamental problems of atmospheric convection, clouds, large scale circulation, and predictability. Climate is controlled by turbulent flows. Turbulent motions are responsible for the bulk of the transport of energy, momentum, and water vapor in the atmosphere, which determine the distribution of temperature, winds, and precipitation on Earth. Clouds, weather systems, and boundary layers in the oceans and atmosphere are manifestations of turbulence in the climate system. Because turbulence remains as the great unsolved problem of classical physics, we do not have a complete physical theory of climate. The aim of this summer school was to survey what is known about how turbulent flows control climate, what role they may play in climate change, and to outline where progress in this important area can be expected, given today's computational and observational capabilities. This book reviews the state-of-the-art developments in this field and provides an essential background to future studies. All chapters are written from a pedagogical perspective, making the book accessible to masters and PhD students and all researchers wishing to enter this field. It is complemented by online video of several lectures and seminars recorded during the summer school"

Environmental Law - Lisa Carol Johnson 2018

Advanced Mathematical Methods in Environmental and Resource Economics - Anastasios Xepapadeas

Economic Development and Environmental

Sustainability - Ramón López 2006

Publisher description

[The Economics of the Environment and Natural Resources](#) - Quentin Grafton 2008-04-15

The Economics of the Environment and Natural Resources covers the essential topics students need to understand environmental and resource problems and their possible solutions. Its unique lecture format provides an in-depth exploration of discrete topics, ideal for upper-level undergraduate, graduate or doctoral study. Each chapter depicts the key theoretical insights, major issues, and real-life problems that motivate the subject. In addition, the chapters feature practical applications and case studies, a list of annotated further reading, and extensive references. Offers broad treatment of issues in Environmental and Resource Economics. Provides in-depth exploration of a wide range of topics with its unique lecture format. Depicts key theoretical insights, major issues, and real-life problems for each subject. Features case studies, annotated further reading, extensive references, and a detailed glossary.

Sampling Strategies for Natural Resources and the Environment - Timothy G. Gregoire 2007-07-12

Written by renowned experts in the field, Sampling Strategies for Natural Resources and the Environment covers the sampling techniques used in ecology, forestry, environmental science, and natural resources. The book presents methods to estimate aggregate characteristics on a per unit area basis as well as on an elemental basis. In addition to common sampling designs such as simple random sampling and list sampling, the authors explore more specialized designs for sampling vegetation, including randomized branch sampling and 3P sampling. One of the book's unique features is the emphasis on areal sampling designs, including plot/quadrat sampling, Bitterlich sampling, line intersect sampling, and several lesser known designs. The book also provides comprehensive solutions to the problem of edge effect. Another distinguishing aspect is the inclusion of sampling designs for continuums, focusing on the methods of Monte Carlo integration. By presenting a conceptual understanding of each sampling design and estimation procedure as well as

mathematical derivations and proofs in the chapter appendices, this text promotes a deep understanding of the underpinnings of sampling theory, estimation, and inference. Moreover, it will help you reliably sample natural populations and continuums.

Natural Resource and Environmental Economics - Roger Perman 2013-02-07

Now in its 4th Edition, this book is a comprehensive and contemporary analysis of the major areas of natural resource and environmental economics. All chapters have been updated in light of new developments and changes in the subject, and provide a balance of theory, applications and examples to give a rigorous grounding in the economic analysis of the resource and environmental issues that are increasingly prominent policy concerns. This text has been written primarily for the specialist market of second and third year undergraduate and postgraduate students of economics. The full text downloaded to your computer With eBooks you can: search for key concepts, words and phrases make highlights and notes as you study share your notes with friends eBooks are downloaded to your computer and accessible either offline through the Bookshelf (available as a free download), available online and also via the iPad and Android apps. Upon purchase, you'll gain instant access to this eBook. Time limit The eBooks products do not have an expiry date. You will continue to access your digital eBook products whilst you have your Bookshelf installed.

Environmental Economics and Natural Resource Management - David A. Anderson 2013-09-23

The tools of environmental economics guide policymakers as they weigh development against nature, present against future, and certain benefits against uncertain consequences. From reluctant-but-necessary calculations of the value of life, to quandaries over profits at the environment's expense, the policies and research findings explained in this textbook are relevant to decisions made daily by individuals, firms, and governments. The fourth edition of Environmental Economics and Natural Resource Management pairs the user-friendly approaches of the previous editions with the latest developments in the field. A story-based

narrative delivers clear, concise coverage of contemporary policy initiatives. To promote environmental and economic literacy, we have added even more visual aids, including color photographs and diagrams unmatched in other texts. Ancillaries include an Instructor's Guide with answers to all of the practice problems and downloadable slides of figures and tables from the book. The economy is a subset of the environment, from which resources are obtained, workers and consumers receive sustenance, and life begins. Energy prices and environmental calamities constrain economic growth and the quality of life. The same can be said about overly restrictive environmental policies. It is with an appreciation for the weighty influence of this discipline, and the importance of conveying it to students, that this textbook is crafted.

U.S. Health in International Perspective - National Research Council 2013-04-12

The United States is among the wealthiest nations in the world, but it is far from the healthiest. Although life expectancy and survival rates in the United States have improved dramatically over the past century, Americans live shorter lives and experience more injuries and illnesses than people in other high-income countries. The U.S. health disadvantage cannot be attributed solely to the adverse health status of racial or ethnic minorities or poor people: even highly advantaged Americans are in worse health than their counterparts in other, "peer" countries. In light of the new and growing evidence about the U.S. health disadvantage, the National Institutes of Health asked the National Research Council (NRC) and the Institute of Medicine (IOM) to convene a panel of experts to study the issue. The Panel on Understanding Cross-National Health Differences Among High-Income Countries examined whether the U.S. health disadvantage exists across the life span, considered potential explanations, and assessed the larger implications of the findings. U.S. Health in International Perspective presents detailed evidence on the issue, explores the possible explanations for the shorter and less healthy lives of Americans than those of people in comparable countries, and recommends actions by both government and nongovernment agencies and organizations to address the U.S.

health disadvantage.

Environment and Society - Paul Robbins 2014-01-28

Substantially updated for the second edition, this engaging and innovative introduction to the environment and society uses key theoretical approaches to explore familiar objects. Features substantial revisions and updates for the second edition, including new chapters on E waste, mosquitoes and uranium, improved maps and graphics, new exercises, shorter theory chapters, and refocused sections on environmental solutions. Discusses topics such as population and scarcity, commodities, environmental ethics, risks and hazards, and political economy and applies them to objects like bottled water, tuna, and trees. Accessible for students, and accompanied by in-book and online resources including exercises and boxed discussions, an online test bank, notes, suggested reading, and website links for enhanced understanding. Offers additional online support for instructors, including suggested teaching models, PowerPoint slides for each chapter with full-color graphics, and supplementary images and teaching material.

Resources in Education - 1996

OECD Green Growth Studies Material Resources, Productivity and the Environment - OECD 2015-02-12

This book provides a factual analysis of material flows and resource productivity in OECD countries in a global context.

Management of Natural Resources, Sustainable Development and Ecological Hazards - C. A. Brebbia 2006-11-09

The state of our planet continues to deteriorate at an alarming rate. We have arrived at a situation where we need to determine urgent solutions before we reach a point of irreversible deterioration. Much has been written in different contexts about reaching sustainability but the concept itself needs to be defined in the framework of all different disciplines in order to arrive at optimal solutions. Hence this book is essentially trans-disciplinary in order to find appropriate sustainable solutions, involving collaboration across a wide range of disciplines. Publishing papers from the First International Conference on Management of Natural

Resources, Sustainable Development and Ecological Hazards, the book features articles encompassing topic areas such as: Water Resources; Air; Soil; Ecology; Health Risk; Energy; Planning and Development; Political and Social Issues; The Re-Encounter; New Technologies; Learning from Nature; Safety.

Stakeholder Dialogues in Natural Resources Management - Susanne Stoll-Kleemann

2007-01-10

Participatory Processes for Natural Resource Management Ortwin Renn University of Stuttgart, Stuttgart, Germany Need for analytic-deliberative processes Inviting the public to be part of the decision making process in natural resource management has been a major objective in European and American environmental policy arenas. The US-National Academy of Sciences has encouraged environmental protection agencies to foster citizen participation and public involvement for making environmental policy making and natural resource management more effective and democratic (Stern and Fineberg 1996). The report emphasizes the need for a combination of assessment and dialogue which the authors have framed the "analytic-deliberative" approach. Unfortunately, early public involvement of the public in deliberative processes may compromise, however, the objective of efficient and effective policy implementation or violate the principle of fairness (Cross 1998, Okrent 1998). Another problem is that the public consists of many groups with different value structures and preferences. Without a systematic procedure to reach consensus on values and preferences, the public's position often appears as unclear (Coglianese 1997, Rossi 1997). Participatory processes are thus needed that combine technical expertise, rational decision making, and public values and preferences. How can and should natural resource managers collect public preferences, integrate public input into the management process, and assign the appropriate roles to technical experts, stakeholders (i. e.

Environment, Energy and Natural Resource Management in the Baltic Region - Jes Fenger 1991

Sustainable Agricultural Development in the Dry

Areas of West Asia and North Africa - Jose I. Furtado 1995

Report based on a Seminar on Natural Resources and Environment Management in the Dry Areas of West Africa and North Africa, Aleppo, Syria, 16-27 February 1992.

Environmental and Natural Resources

Economics - Steven C. Hackett 2001

With over 25% new material, this new edition of Environmental and Natural Resources Economics offers an accessible and balanced treatment of economic theory and policy relating to the environment, as well as a thorough overview of the economics of sustainability.

Intended for both students and practitioners, the book has been completely updated to include discussion and analysis of the latest U.S. and international environmental policy initiatives -- such as the Kyoto Protocol--and how they affect the global economy. Fully-integrated web source linkages have also been added throughout to enable all readers to make better use of the book's own website and a myriad of other available internet resources for research and supplemental reading on this crucial subject

Energy, Natural Resources and Environmental

Economics - Endre Bjørndal 2010-09-14

This book consists of a collection of articles describing the emerging and integrated area of Energy, Natural Resources and Environmental Economics.

A majority of the authors are researchers doing applied work in economics, finance, and management science and are based in the Nordic countries. These countries have a long tradition of managing natural resources. Many of the applications are therefore founded on such examples. The book contents are based on a workshop that took place during May 15-16, 2008 in Bergen, Norway. The aim of the workshop was to create a meeting place for researchers who are active in the area of Energy, Natural Resource, and Environmental Economics, and at the same time celebrate Professor Kurt Jorns' ten's 60th birthday. The book is divided into four parts. The first part considers petroleum and natural gas applications, taking up topics ranging from the management of incomes and reserves to market modeling and value chain optimization. The second and most extensive part studies applications from electricity markets, including

analyses of market prices, risk management, various optimization problems, electricity market design, and regulation. The third part describes different applications in logistics and management of natural resources. Finally, the fourth part covers more general problems and methods arising within the area.

Resource and Environmental Economics - Anthony C. Fisher 1981-11-30

This book presents the major themes of the economic literature on natural resources and the environment. It is designed to bring the reader, in part with the aid of a unified model of optimal resource use, to the frontiers of the discipline, using only elementary mathematical models. Features special to exhaustible and renewable resources, including the problems posed by market imperfections, are treated as extensions of the basic model. The theoretical discussion is enriched with examples and applications, including a systematic investigation of the behaviour of resource reserves, costs, prices, and substitution possibilities. Substantial attention to environmental, as well as extractive, resources is a distinctive aspect of this book. The author describes methods of estimating the environmental costs of resource development and other projects, and presents some key empirical findings. Policy instruments to protect the environment, such as taxes, subsidies, marketable permits, and direct controls, are carefully analysed from a welfare-theoretic point of view.

The Global Environment, Natural Resources, and Economic Growth - Alfred Greiner 2008-07-25

Global growth, in particular high economic growth rates, implies a fast depletion of resources. Thus, this book deals with the impact on the environment and the effect of the exhaustive use of natural resources on economic growth and welfare of market economies.

Environmental and Natural Resource Economics - Jonathan M. Harris 2016-05-05

Harris and Roach present a compact and accessible presentation of the core environmental and resource topics and more, with analytical rigor as well as engaging examples and policy discussions. They take a broad approach to theoretical analysis, using both standard economic and ecological analyses, and developing these both from theoretical and

practical points of view. It assumes a background in basic economics, but offers brief review sections on important micro and macroeconomic concepts, as well as appendices with more advanced and technical material. Extensive instructor and student support materials, including PowerPoint slides, data updates, and student exercises are provided.

Proceedings of the International Conference on Innovations for Sustainable and Responsible Mining - Xuan-Nam Bui 2020-11-26

This volume gathers the latest advances, innovations, and applications in the field of mining, geology and geo-spatial technologies, as presented by leading researchers and engineers at the International Conference on Innovations for Sustainable and Responsible Mining (ISRM), held in Hanoi, Vietnam on October 15-17 2020. The contributions cover a diverse range of topics, including mining technology, drilling and blasting engineering, tunneling and geotechnical applications, mineral processing, mine management and economy, environmental risk assessment and management, mining and local development, mined land rehabilitation, water management and hydrogeology, regional Geology and tectonics, spatial engineering for monitoring natural resources and environment change, GIS and remote sensing for natural disaster monitoring, risk mapping and revisualization, natural resources monitoring and management, mine occupational safety and health. Selected by means of a rigorous peer-review process, they will spur novel research directions and foster future multidisciplinary collaborations.

Environmental and Natural Resource Economics - Kentaka Aruga 2022-03-11

This textbook discusses environmental and natural resource economics. It presents foundational knowledge for applying economics to understand environmental economics as well as for managing environmental problems and optimizing the level of natural resource extraction. *Environmental and Natural Resource Economics* bridges knowledge between the major natural environmental issues and which economic policies could be applied for reducing human impacts on such issues. It is distinctive from other environmental economics textbooks

by covering not only basic concepts introduced in environmental economics but also explains economic models developed in resource economics for optimizing the use of non-renewable and renewable resources for sustainability. This textbook will help students understand how to apply economics for utilizing policies to mitigate environmental issues caused from the output side of economic activities such as emitting pollutants or generating wastes and those derived from the input side such as natural resource extractions.

Redefining Diversity and Dynamics of Natural Resources Management in Asia, Volume 4 - Ganesh Shivakoti 2016-10-11
Redefining Diversity and Dynamics of Natural Resources Management in Southeast Asia, Volumes 1-4 brings together scientific research and policy issues across various topographical area in Asia to provide a comprehensive overview of the issues facing the region. The Reciprocal Relationship between Governance of Natural Resources and Socio-Ecological Systems Dynamics in West Sumatra Indonesia, Volume 4, covers a diverse range of issues related to natural resources and its management in West Sumatra Indonesia. The chapters cover issues with livelihood dependence, rights and access to natural resources, natural resources management practices, socio-ecological systems, and governance. Shared experiences and lessons learned from the case studies examined serve as a basis for policy makers and environmental practitioners to recognize the potential of West Sumatra's natural resources for ecological, social and economic development, food security, poverty alleviation, and natural resource sustainability. Features contributions from mostly local authors Explores an area experiencing considerable environmental challenges, including impacts on biodiversity and local economies Includes chapters on forests and illegal logging, land resources, water resources, protected lands, and biodiversity Examines case studies as a basis for policy makers and environmental practitioners to recognize the potential of West Sumatra's natural resources for ecological, social and economic development, food security, poverty alleviation, and natural resource sustainability
Environmental and Natural Resource Economics

- Thomas H. Tietenberg 2018-03-13
Environmental and Natural Resource Economics is the best-selling text for natural resource economics and environmental economics courses, offering a policy-oriented approach and introducing economic theory and empirical work from the field. Students will leave the course with a global perspective of both environmental and natural resource economics and how they interact. Complemented by a number of case studies showing how underlying economic principles provided the foundation for specific environmental and resource policies, this key text highlights what can be learned from the actual experience. This new, 11th edition includes updated data, a number of new studies and brings a more international focus to the subject. Key features include: Extensive coverage of the major issues including climate change, air and water pollution, sustainable development, and environmental justice. Dedicated chapters on a full range of resources including water, land, forests, fisheries, and recyclables. Introductions to the theory and method of environmental economics including externalities, benefit-cost analysis, valuation methods, and ecosystem goods and services. Boxed 'Examples' and 'Debates' throughout the text which highlight global examples and major talking points. The text is fully supported with end-of-chapter summaries, discussion questions, and self-test exercises in the book and multiple-choice questions, simulations, references, slides, and an instructor's manual on the Companion Website.

Redefining Diversity and Dynamics of Natural Resources Management in Asia, Volume 3 - Ganesh Shivakoti 2016-09-13
Redefining Diversity and Dynamics of Natural Resources Management in Southeast Asia, Volumes 1-4 brings together scientific research and policy issues across various topographical areas in Asia to provide a comprehensive overview of the issues facing this region. Natural Resource Dynamics and Social Ecological Systems in Central Vietnam: Development, Resource Changes and Conservation Issues, Volume 3, focuses on the issues specific to Central Vietnam that are also found globally. War had significantly impacted both land and water resources, from which it had to recover

environmentally. Additionally, this is an area with growing urbanization pressures and industrial development, both of which are known for stretching resources beyond their limits. The introduction of several hydro-electric power projects have even further eroded the local agricultural and forest ecosystems. This volume looks at Central Vietnam holistically, from management and use to policy and data-driven solutions. Provides land management practitioners and policy makers with the tools to deal with natural resource issues in a developing

nation Reviews the impacts of the first PES, Payment for Ecosystem Services, policies upon which were based similar programs in Latin America Reviews the current and potential future land management of Central Vietnam, giving an eye to solutions for any nation impacted by war, trying to balance development with conservation efforts and provide their populations with sustainable economic futures Examines Central Vietnam holistically, from management and use to policy and data-driven solutions