

Option C Energy Cambridge Resources For The Ib Diploma

Much applied environmental economics is concerned with the valuation of changes in environmental quality. Obtaining reliable valuation estimates requires attention to theoretical and econometric issues that are often quite subtle. Volume 2 of the Handbook of Environmental Economics presents both the theory and the practice of environmental valuation. It synthesizes the vast literature that has accumulated since the publication of the Handbook of Natural Resource and Energy Economics two decades ago. It includes chapters on individual valuation methods written by researchers responsible for fundamental advances in those methods. It also includes cross-cutting chapters that deal with aspects of welfare theory, uncertainty, experimental methods, and public health that are pertinent to valuation. Throughout the volume, attention is paid to research and policy issues that arise not only in high-income countries, where most of the theory and econometrics that underlie applied valuation methods have been developed, but also in poorer parts of the world. The volume provides a state-of-the-art reference for scholars and practitioners alike.

An examination of a variety of leasing arrangements between resource development companies and aboriginal groups to demonstrate the options available to native peoples attempting to gain control over resource development on their lands. Among others, examines in detail the Alaska Native Claims Settlement Act and the James Bay and Northern Quebec Agreement.

Physics for the IB Diploma, Sixth edition, covers in full the requirements of the IB syllabus for Physics for first examination in 2016. This Exam Preparation Guide contains up-to-date material matching the 2016 IB Diploma syllabus and offers support for students as they prepare for their IB Diploma Physics exams. The book is packed full of Model Answers, Annotated Exemplar Answers and Hints to help students hone their revision and exam technique and avoid common mistakes. These features have been specifically designed to help students apply their knowledge in exams. The book also contains lots of questions for students to use to track their progress. The book has been written in an engaging and student friendly tone making it perfect for international learners.

The economic and political aspects of energy subsidies, viewed both theoretically and empirically, with a focus on fossil fuel subsidies in developing nations. Government subsidies to energy are widespread and represent a heavy burden on public budgets in many countries. Both producers and consumers may be subsidized; the most common subsidies are for motor fuel consumption and electricity production and consumption. The subsidies to consumers often prove particularly harmful because they result in increased energy consumption, increased carbon emissions, and distortionary effects on consumer behavior. This book fills a void in the literature by providing a first, broad and diverse, analysis of several aspects of the economic and political economy aspects of government energy subsidies. The contributors take both theoretical and empirical approaches, with most of the focus on subsidies to fuel and electricity in non-OECD countries. The chapters cover such topics as energy pricing, reelection incentives for politicians that may encourage excessive subsidies; political corruption and “bribing equilibria,” the the “resource curse” in developing countries when the gains from natural resource windfalls are largely wasted, the “entitlement” of energy subsidies in autocracies, and distributional issues when subsidies targeted to the poor are removed in high-income countries. One chapter discusses nonharmful subsidies: the potential economic effects of subsidizing the manufacturing and deployment of renewable energy. Contributors Carolyn Fischer, Mads Greaker, Mohammad Habibpour, Michelle Harding, Christina Kolerus, Christos Kotsogiannis, Jim Krane, Alber Touna Mama, Raffaele Miniaci, Marco Pani, Ian Parry, Carlo Perroni, Leonzio Rizzo, Knut Einar Rosendahl, Carlo Scarpa, Neda Seiban, Suphi Sen, Jon Strand, Paola Valbonesi, Herman Vollebergh

Chemistry for the IB Diploma Coursebook with Free Online Material

Changing Senses of Place

Physics for the IB Diploma Exam Preparation Guide

The Case Of Alaska

Environmental Resources and Applied Welfare Economics

Handbook of Natural Resource and Energy Economics

IPCC Report on sources, capture, transport, and storage of CO2, for researchers, policy-makers and engineers.

Chemistry for the IB Diploma, Second edition, covers in full the requirements of the IB syllabus for Chemistry for first examination in 2016. This workbook is specifically for the IB Chemistry syllabus, for examination from 2016. The Chemistry for the IB Diploma Workbook contains straightforward chapters that build learning in a gradual way, first outlining key terms and then providing students with plenty of practice questions to apply their knowledge. Each chapter concludes with exam-style questions. This structured approach reinforces learning and actively builds students' confidence using key scientific skills - handling data, evaluating information and problem solving. This helps empower students to become confident and independent learners. Answers to all of the questions are on the CD-ROM.

The Oxford Handbook of Contextual Approaches to Human Resource Management provides both conceptual and empirical analyses using a range of different lenses in order to provide a detailed examination of how context affects the design and implementation of HRM activities.

Chemistry for the IB Diploma, Second edition, covers in full the requirements of the IB syllabus for Chemistry for first examination in 2016. This digital version of Chemistry for the IB Diploma Coursebook, Second edition, comprehensively covers all the knowledge and skills students need during the Chemistry IB Diploma course, for first examination in 2016, in a reflowable format, adapting to any screen size or device. Written by renowned experts in Chemistry teaching, the text is written in an accessible style with international learners in mind. Self-assessment questions allow learners to track their progress, and exam-style questions help learners to prepare thoroughly for their examinations. Answers to all the questions from within the Coursebook are provided.

Encyclopedia of Energy, Natural Resource, and Environmental Economics

Transforming Energy

IB Chemistry Course Book

Chemistry for the IB Diploma Second Edition

Technology Choice

Canadian Natural Resource and Environmental Policy, 2nd ed.

This report emphasizes the environmental, fiscal, economic, and administrative case for using carbon taxes, or similar pricing schemes such as emission trading systems, to implement climate mitigation strategies. It provides a quantitative framework for understanding their effects and trade-offs with other instruments and applies it to the largest advanced and emerging economies. Alternative approaches, like “feebates” to impose fees on high polluters and give rebates to cleaner energy users, can play an important role when higher energy prices are difficult politically. At the international level, the report calls for a carbon price floor arrangement among large emitters, designed flexibly to accommodate equity considerations and constraints on national policies. The report estimates the consequences of carbon pricing and redistribution of its revenues for inequality across households. Strategies for enhancing the political acceptability of carbon pricing are discussed, along with supporting measures to promote clean technology investments.

This volume presents sixteen essays by comparative historical scholars who offer a survey of the new fiscal sociology.

Against the background of a projected doubling of world greenhouse gas emissions by mid-century, this book explores feasible ways to abate them at least cost.

Global challenges ranging from climate change and ecological regime shifts to refugee crises and post-national territorial claims are rapidly moving ecosystem thresholds and altering the social fabric of societies worldwide. This book addresses the vital question of how to navigate the contested forces of stability and change in a world shaped by multiple interconnected global challenges. It proposes that senses of place is a vital concept for supporting individual and social processes for navigating these contested forces and encourages scholars to rethink how to theorise and conceptualise changes in senses of place in the face of global challenges. It also makes the case that our concepts of sense of place need to be revisited, given that our experiences of place are changing. This book is essential reading for those seeking a new understanding of the multiple and shifting experiences of place.

Chemistry for the IB Diploma Workbook with CD-ROM

Renewable Energy Sources and Climate Change Mitigation

for the IB Diploma

IB Physics Course Book

Political Economy and Public Policy

Assessing the economic viability of alternative water resources in water-scarce regions: Combining economic valuation, cost-benefit analysis and discounting

Given the potential disruption of climate change, understanding energy issues and technologies is more important than ever if societies are to make informed choices on policy. Now in its third edition, Introduction to Energy explores the connections between energy and modern energy technology and its uses. Fully updated to respond to the substantial developments in the energy sector, the book expands on the relationships of energy use and climate change; of energy availability and the effects of energy prices on poverty; and of energy consumption and the sustainability of the lifestyles of people in the industrialized world. Directed at a broad readership, it assumes no prior technical expertise and avoids complex mathematical formulations, continuing the tradition of introductory energy courses. It is also a useful supplementary text for programs in public policy, business law and resource economics.

A best-seller now available in full colour, covering the entire IB syllabus.

Choosing the optimal management option requires environmental risk managers and decision makers to evaluate diverse, and not always congruent, needs and interests of multiple stakeholders. Understanding the trade-offs of different options for their legal, economic, scientific, and technological implications is critical to performing accurate assessments and making sound decisions. Valuation of Ecological Resources: Integration of Ecology and Socioeconomics in Environmental Decision Making examines various alternatives for determining the “value” of complex ecological resources. The book discusses how ecology, sociology, and economics influence environmental management decisions. The book further explores the scientific basis of ecological valuation and the roles of regulatory and legislative bodies in the decision-making process. A series of case studies demonstrates the utility of various information sets, tools, and analytical frameworks. Summarizes the conclusions of the Ecological Risk Assessment Advisory Group during special workshops conducted by the Society of Environmental Toxicology and Chemistry (SETAC) Written by leading experts from industry, academia, and environmental regulatory agencies, this text is an excellent resource for self-study as well as for courses in industrial ecology, environmental management, ecological risk assessment, environmental policy, and strategies for sustainability and corporate responsibility.

In the 1990s shareholder value was applied to all aspects of corporate strategy and management decisions as a result of intense competition, globalization, advances in technology, deregulation and the financial markets. As we enter the 21st century, the business environment is one of increasing creative destruction, where competitive advantage is much harder to sustain. Real Options , a type of advanced financial analysis, applies financial option theory to real assets and offers a strategy that recognizes the need for management flexibility and to leverage risk in this corporate environment.

Energy Research Abstracts

The Oxford Handbook of Contextual Approaches to Human Resource Management

Resource-leasing Options and the Settlement of Aboriginal Claims

Carbon Dioxide Capture and Storage

Taxation in Comparative and Historical Perspective

Valuation of Ecological Resources

This book, first published in 1988, provides an overview of the diverse work that was being done in applied and theoretical environmental and resource economics. Some essays reflect upon the background of the work of John Krutilla, one of the founders of Resources for the Future and a leading scholar of environmental economics, and the development of the field to date. Other essays examine and convey findings on particular resource problems and theoretical issues and resource policies and the practice of applied welfare economics. This title will be of interest to students of economics and environmental studies.

The Second Edition of Family Resource Management unlocks the complexity of family decision making for students, enabling them to grasp both the concepts and the underlying explanations of family behavior. Authors Tami James Moore and Sylvia M. Asay have provided a strong theoretical base to facilitate both understanding and retention and have organized the text to parallel the decision-making process employed by professionals. As a result, it includes sections on introduction to the study of family resource management, identification of family needs, understanding resources available to families in differing socioeconomic circumstances, evaluating alternatives and making choices, and implementing and evaluating decisions.

This paper demonstrates a comprehensive methodology for assessing the viability of an environmental management plan that has long-run economic and ecological impacts. The case study under consideration is the implementation of a water resource management plan in a water-scarce region of the world, namely Cyprus. Specifically, this plan proposes to replenish a depleting aquifer with treated wastewater. The proposed methodology first identifies the key stakeholder groups (farmers and the general public) who are hypothesized to derive economic values (benefits) from implementation of this plan, and then uses stated-preference methods to capture the total economic value of these benefits. Benefits are aggregated over the relevant populations of these stakeholder groups and weighed against the total costs of implementing the plan in a long-run cost-benefit analysis (CBA). An econometrically estimated time-declining trajectory of discount rates is used for the CBA in order to assess the long-run sustainability of the plan. The results reveal that the net benefit trajectory estimated with the time-declining discount rate takes one and a half to three times as long to come to a plateau compared to the constant discount rates of 3.5 and 6 percent, emphasizing the importance of using declining discount rates and capturing the entirety of the benefits generated by such plans. This methodology is particularly recommended for providing much needed information to support the implementation of the EU Water Framework Directive, which advocates the use of CBA with consideration of the notion of sustainability for achieving the "good water status" for all European waters.

Climate Change, Human Systems and Policy is a component of Encyclopedia of Natural Resources Policy and Management in the global Encyclopedia of Life Support Systems (EOLSS), which is an integrated compendium of twenty one Encyclopedias. The Theme on Climate Change, Human Systems and Policy presented in three volumes, deals with the interaction between climate and human systems for policy development. These volumes discuss History, Status, and Prediction of Global Climate Change; Potential Large-scale Effects of Global Warming; Public Perceptions Toward Global Climate Change; Effects of Potential Sea-Level Rises; Economics of Potential Climate Change; Response Strategies for Stabilization of Atmospheric Composition; Policy Framework and Systems Management of Global Climate Change. These three volumes are aimed at the following five major target audiences: University and College students Educators, Professional practitioners, Research personnel and Policy analysts, managers, and decision makers and NGOs.

A Critique Of The Appropriate Technology Movement

1994 ACEEE Summer Study on Energy Efficiency in Buildings: Resource planning methodologies

Handbook of Natural Resource and Energy

The New Fiscal Sociology

Handbook of Sustainable Politics and Economics of Natural Resources

Navigating Global Challenges

This Intergovernmental Panel on Climate Change Special Report (IPCC-SRREN) assesses the potential role of renewable energy in the mitigation of climate change. It covers the six most important renewable energy sources - bioenergy, solar, geothermal, hydropower, ocean and wind energy - as well as their integration into present and future energy systems. It considers the environmental and social consequences associated with the deployment of these technologies, and presents strategies to overcome technical as well as non-technical obstacles to their application and diffusion. SRREN brings a broad spectrum of technology-specific experts together with scientists studying energy systems as a whole. Prepared following strict IPCC procedures, it presents an impartial assessment of the current state of knowledge: it is policy relevant but not policy prescriptive. SRREN is an invaluable assessment of the potential role of renewable energy for the mitigation of climate change for policymakers, the private sector, and academic researchers.

Sustainable development and environmental improvement are often regarded as intrinsically valuable a priori. As a result, the policies by which these goals are to be attained is often inadequately scrutinised. In this book, ecological economics addresses the institutional and policymaking aspects of environmental problems, thus covering a broad socioeconomic research agenda, in contradistinction to mainstream economic approaches. The approach advocated here is open to differing viewpoints on the same issue, sees conflict resolution as a social process, and accepts the need for research into political-economic issues, according a prominent position to the aims of society itself. An in-depth analysis of the policy process is followed in order to understand the pitfalls and barriers that will confront society on the road to sustainable development. Readership: The broad approach advocated will appeal to all involved in environmental problems - decision makers, NGO members, and academic scholars.

The most comprehensive match to the new 2014 Chemistry syllabus, this completely revised edition gives you unrivalled support for the new concept-based approach, the Nature of science. The only DP Chemistry resource that includes support directly from the IB, focused exam practice, TOK links and real-life applications drive achievement.

Every decision about energy involves its price and cost. The price of gasoline and the cost of buying from foreign producers; the price of nuclear and hydroelectricity and the costs to our ecosystems; the price of electricity from coal-fired plants and the cost to the atmosphere. Giving life to inventions, lifestyle changes, geopolitical shifts, and things in-between, energy economics is of high interest to Academia, Corporations and Governments. For economists, energy economics is one of three subdisciplines which, taken together, compose an economic approach to the exploitation and preservation of natural resources: energy economics, which focuses on energy-related subjects such as renewable energy, hydropower, nuclear power, and the political economy of energy resource economics, which covers subjects in land and water use, such as mining, fisheries, agriculture, and forests environmental economics, which takes a broader view of natural resources through economic concepts such as risk, valuation, regulation, and distribution Although the three are closely related, they are not often presented as an integrated whole. This Encyclopedia has done just that by unifying these fields into a high-quality and unique overview. The only reference work that codifies the relationships among the three subdisciplines: energy economics, resource economics and environmental economics. Understanding these relationships just became simpler! Nobel Prize Winning Editor-in-Chief (joint recipient 2007 Peace Prize), Jason Shogren, has demonstrated excellent team work again, by coordinating and steering his Editorial Board to produce a cohesive work that guides the user seamlessly through the diverse topics This work contains in equal parts information from and about business, academic, and government perspectives and is intended to serve as a tool for unifying and systematizing research and analysis in business, universities, and government

Scientific and Technical Aerospace Reports

Newhall Ranch Resource Management and Development Plan and Spineflower Conservation Plan

Chemistry for the IB Diploma Exam Preparation Guide

Environmental Impact Statement

Special Report of the Intergovernmental Panel on Climate Change

Handbook of Environmental Economics: Valuing environmental changes

Provide clear guidance to the 2014 changes and ensure in-depth study with accessible content, directly mapped to the new syllabus and approach to learning This second edition of the highly-regarded first edition contains all SL and HL content, which is clearly identified throughout. Options are available free online, along with appendices and data and statistics. - Improve exam performance, with exam-style questions, including from past papers - Integrate Theory of Knowledge into your lessons and provide opportunities for cross-curriculum study - Stretch more able students with extension activities - The shift to concept-based approach to learning , Nature of Science, is covered by providing a framework for the course with points for discussion - Key skills and experiments included - Full digital package - offered in a variety of formats so that you can deliver the course just how you like! This book attempts to provide a theoretical framework for answering difficult questions evoked by the concept of technology choice primarily by conducting a review of the Appropriate Technology movement and its ideas and experiments. This book provides an analytic framework from which the foundation of ideological perspectives, administrative structures, and substantive issues are explored. Departing from traditional approaches that emphasize a single discipline or perspective, it offers an interdisciplinary framework with which to think through ecological, political, economic, and social issues. It also provides a multi-stage analysis of policy making from agenda setting through the evaluation process. The integration of social science perspectives and the combination of theoretical and empirical work make this innovative book one of the most comprehensive analyses of Canadian natural resource and environmental policy to date. This book develops the theory of durable choice and utilization. The basic assumption is that the demand for energy is a derived demand arising through the production of household services. Durable choice is associated with the choice of a

particular technology for providing the household service. Econometric systems are derived which capture both the discrete choice nature of appliance selection and the determination of continuous conditional demand. Using the National Interim Energy Consumption Survey (NIECS) from 1978, a nested logit model of room air-conditioning, central air-conditioning, space-heating and water heating is estimated. The estimated probability choice model is used to forecast the impacts of proposed building standards for newly constructed single family detached residences. A network thermal model provides unit energy consumptions for alternative heating and cooling systems across time. Monthly billing data matched to NIECS is analyzed permitting seasonal estimation of the demand for electricity and natural gas by households. The theory of price specification for demand subject to a declining rate structure is reviewed and tested. Finally, consistent estimation procedures are used in the presence of possible correlation between dummy variables indicating appliance ownership and the equation error. The hypothesis of simultaneity in the demand system is tested. Conditional moments in the generalized extreme value family are derived to extend discrete continuous econometric systems in which discrete choice is assumed logistic. An efficiency comparison of various two-stage consistent estimation techniques applied to a single equation of a dummy endogenous simultaneous equation system is undertaken and asymptotic distributions are derived for each estimation method.

Integration of Ecology and Socioeconomics in Environmental Decision Making
Solving Climate Change with Technology Policy

Essays in Honor of John V. Krutilla
Conflict And Choice In Resource Management
Policies and Options for Global Action beyond 2012

This timely Handbook draws together insightful analyses of natural resource management challenges and solutions in the face of sustainable development targets and a changing global climate.

Chemistry for the IB Diploma, Second edition, covers in full the requirements of the IB syllabus for Chemistry for first examination in 2016.

The Handbook of Natural Resource and Energy Economics examines the current theory and sample current application methods for natural resource and energy economics. This third volume deals primarily with non-renewable resources. It analyzes the economics of energy and minerals, and includes chapters on the economics of environmental policy. The Handbook provides a source, reference and teaching supplement for use by professional researchers and advanced graduate students. The surveys summarize not only received results but also newer developments from recent journal articles and discussion papers.

This book is a unique, multidisciplinary effort to apply rigorous thermodynamics fundamentals, a disciplined scholarly approach, to problems of sustainability, energy, and resource uses. Applying thermodynamic thinking to problems of sustainable behavior is a significant advantage in bringing order to ill-defined questions with a great variety of proposed solutions, some of which are more destructive than the original problem. The articles are pitched at a level accessible to advanced undergraduates and graduate students in courses on sustainability, sustainable engineering, industrial ecology, sustainable manufacturing, and green engineering. The timeliness of the topic, and the urgent need for solutions make this book attractive to general readers and specialist researchers as well. Top international figures from many disciplines, including engineers, ecologists, economists, physicists, chemists, policy experts and industrial ecologists among others make up the impressive list of contributors.

Climate Change, Human Systems, and Policy - Volume II

Resources, Technology, and Society

How to Mitigate Climate Change

For the IB diploma

The Economics and Political Economy of Energy Subsidies

Fiscal Monitor, October 2019

Chemistry for the IB Diploma Coursebook with Free Online MaterialCambridge University Press

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

This book shows how promoting clean energy technologies - from solar panels to electric cars - can end human-induced climate change.

Physics for the IB Diploma Full Colour

Family Resource Management

Consumer Durable Choice and the Demand for Electricity

Reconciling Innovation, Strategy and Value Management

Thermodynamics and the Destruction of Resources

Strategy, Value and Risk - The Real Options Approach