

ROUTLEDGE REVIVALS

Technical Change, Relative Prices, and Environmental Resource Evaluation

V. Kerry Smith



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Technical Change Relative Prices And Environmental Resource Evaluation

Anthony C. Fisher



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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

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 **Technical Change, Relative Prices, and Environmental Resources Evaluation** V. Kerry Smith, 1974

An Induced Innovation Interpretation of Technical Change in Agriculture in Developed Countries, The Economics of Natural Environments John V. Krutilla, Anthony C. Fisher, 2022-03-01 In this pioneering study Krutilla and Fisher put the amenity resources of natural environments into an analytical framework comparable to that for the extractive resources The models and theoretical background of their techniques are illustrated by case studies which include the controversial Hells Canyon dam the Mineral King ski resort and the Trans Alaska pipeline The authors point out that resource development activities undertaken on public lands often receive financial advantages preferential tax treatment subsidized capital and access to public resources that are not taken into account in the costs of the project True evaluation of the costs and benefits of a development project often tips the balance in favor of preserving an area in a natural state

Technical Change And Social Conflict In Agriculture Martin E Pineiro, Eduardo J Trigo, 2019-06-21 This book presents the intellectual production of the first phase of the Cooperative Research Project on Agricultural Technology in Latin America PROTAAL and the most relevant papers presented by invitees at a meeting held in San Jose Costa Rica in September 1981 Economic Growth and Resources Christopher Bliss, M. Boserup, 1980-07-17 **Global Environmental Economics** H.W. Gottinger, 2012-12-06 7 2 Cumulative Pollutants and the Rate of Economic Growth 217 7 3 Economic Growth in an Unregulated Economy 223 7 4 Economic Growth in a Degrading Economy 231 7 5 Economic Growth in the Spaceship Economy 237 7 6 Dynamic Equilibrium in the Spaceship Economy 248 7 7 An Evaluation of the Model and some Conclusions 254 7 8 Some Long Term Implications of the Model 256 References 258 Chapter 8 Optimal Economic Growth when CO Constraints are Critical 2 8 1 Introduction 259 8 2 Formulation of the Problem 260 8 3 Derivation of the Necessary Conditions 264 8 4 Analysis of the Necessary Conditions 265 8 5 Conclusion 277 References 279 Chapter 9 Uncertainty Value of Information and Greenhouse Gas Emissions 9 1 Introduction 280 9 2 An Illustrative Example Evaluating a Climate Research and Monitoring Programme 282 293 9 3 The Value of Information in a Stochastic Dynamic Programme 301 9 4 Optimal Policies in a Stochastic Dynamic Programme 307 9 5 Resource Costs and Critical Probabilities 9 6 Conclusions 314 317 References 319 Epilogue 325 Index viii Preface The movement of carbon from sources to final disposition is known as

the carbon cycle The largest reservoir of carbon is in carbonate sediments such as limestone and chalk Other significant but less stable reservoirs include fossil fuels living and dead plants and animals carbonates and bicarbonates dissolved in the ocean

Cost-Benefit Analysis for Project Appraisal Per-Olov Johansson, Bengt Kriström, 2016 This book uses modern economic tools to obtain general equilibrium cost benefit rules It not only presents evaluation rules for small projects but also shows how to evaluate large projects as well as mega projects such as high speed rails and channel tunnels This is an excellent toolkit for graduate students and policymakers

Evaluating Sustainable Development in the Built Environment Peter S. Brandon, Patrizia Lombardi, 2010-12-01 The first edition was extremely well received providing an introduction and insight to this important topic in a comprehensive yet easy to read form It was chosen to be issued to the representatives of the organizations from the G8 and G20 countries attending the University Summit held in Turin in 2009 which addressed the issue of how education and research can assist sustainable development The second edition completely updated to reflect the significant advances and new insights that have been made since publication of the first edition focuses on two main issues Facilitating a dialogue between all stakeholders so that the complexity of the problem can be exposed structured and communicated Understanding how to assess progress in sustainable development It continues to provide coherent guidance on the techniques that can be used to assess sustainable development in a rigorous manner The approach is introduced using illustrations and case studies together with follow up references It remains the ideal starting point for those trying to get a handle on the subject and for those who wish to examine a structured and systematic approach to the evaluation of sustainable development in the built environment

Evaluating Sustainable Development Peter S. Brandon, Patrizia Lombardi, 2009-02-18 Sustainable development has been characterised by an emphasis on environmental issues and an ad hoc approach to structuring the subject which hinders the development of knowledge in a systematic way The built environment contributes significantly to the environment but is also one of the major factors in determining whether a community is sustainable in the longer term A structure is required which aids definition provides a common set of values establishes measurement methods to define progress and suggests a management system and decision protocol which enables practitioners to engage and use the resultant structures and information This book provides a suggested structure in which all aspects of sustainable development can be included together with a set of evaluation techniques which can be used within the structure to provide assistance to decision making

The Economics of Evaluating Water Projects Per-Olov Johansson, Bengt Kriström, 2012-03-14 This book presents research on a kind of water use conflicts that is becoming more and more common and important How to best manage moving water in times of increasing demand for electricity as well as environmental services How should decisions be made between water use for electricity generation or for environmental and recreational benefits The authors develop a simple general equilibrium model of a small open economy which is used to derive a cost benefit rule that can be used to assess projects that divert water from electricity generation to

recreational and other uses or vice versa The cost benefit rule is then applied to the specific case of a proposed change at a Swedish hydropower plant The book provides a manual for the evaluation of river regulations which can easily be replicated in other studies

The Use of Economic Analysis in Valuing Natural Resource Damages Edward J. Yang, Roger C. Dower, Mark Menefee, 1984

Thinking Through the Environment Mark J. Smith, 2005-09-30 This broad ranging and thought provoking set of readings stresses the diversity of responses in the way the natural environment has been understood and questioned in the modern world

Economics of Environmental Conservation Clement Allan Tisdell, 2005-01-01 Tisdell has produced one of the best books in print about the economics of environmental conservation This volume updates the 1991 edition by discussing more current issues theories developments and analytic frameworks Tisdell masterfully weaves into many chapters insights from ecological economics a somewhat new area of economics that cannot be ignored in informed discussions of environmental conservation Tisdell writes clearly and documents each chapter extremely well He presents a quite balanced view on policy issues discussing pros and cons of different policies Overall an extraordinary book Essential Academic collections upper division undergraduate and up D D Miller Choice I like it alot and would certainly recommend it to students as an excellent entry point into environmental economics It is certainly comprehensive covering international through to local environmental issues developed and developing country experiences across both green and brown topics The book is written in a highly accessible style and embodies a rigorous theoretical base on which is developed a host of practical examples of application This reflects Tisdell s wide ranging experience as one of the senior statesmen of environmental economics Jeff Bennett The Australian National University A second edition of this book is to be warmly welcomed The insights it offers into the sustainable use of ecological resources especially in developing countries are important for those coming to the study of environmental resource or ecological economics for the first time While the treatment of new topics such as globalization and the Environmental Kuznets Curve adds value to the original text the inclusion of much material from the first edition helps remind us that there is a rich and long standing literature on this topic Charles Perrings University of York UK In the second edition of Economics of Environmental Conservation Clem Tisdell applies wisdom experience and carefully developed economic theory to dozens of conservation issues The result is a wide ranging book that skillfully employs ecological economics to analyse conservation issues drawn often from Australia and Asia and relevant in many countries The policy options proposed to the diverse conservation issues reflect a philosophy developed during more than thirty years research The book is a rich source of insight and inspiration for anyone analysing environmental conservation issues Ross Cullen Lincoln University New Zealand Few economists have the breadth of experience and depth of analytical capability to comment with insight on the vast array of issues that now comprise the environmental agenda Clem Tisdell is one of that small band Here is a welcome expansion of his already successful Economics of Environmental Conservation Highly recommended David Pearce University College London UK This fully

updated and comprehensively revised edition of a classic text concentrates on the economics of conserving the living environment It begins by covering the ethical foundations and basic economic paradigms essential for understanding and assessing ecological economics General strategies for global environmental conservation policies for government intervention developing countries preserving wildlife and biodiversity open access to and common property in natural resources conservation of natural areas forestry agriculture and the environment tourism sustainable development and demographic change are also all covered This second edition deals with contemporary environmental policy issues that can be expected to be of lasting concern and importance each chapter benefiting from either the addition of substantial sections of new material valuable explanations or updates and revisions in light of developments in theory or world events and conditions Updated techniques of economic analysis are also introduced explained simply and a Seminario:"cambio Tecnico en Al Agro Latinoamericano Situacion Y Perspectivas en la Decada de 1980" , Handbook of Water Economics Ariel Dinar,Kurt Schwabe,2015-09-25 Water scarcity whether in the quality or quantity dimension afflicts most countries Decisions on water management and allocation over time space and among uses and users involve economic considerations This Handbook assembles research that represents recent thinking and applications in water economics The book chapters are written by leading scholars in the field who address issues related to its use management and value The topics cover analytical methods sectoral and intersectoral water issues and issues associated with different sources of water **U.S. Environmental Protection Agency Library System Book Catalog** United States. Environmental Protection Agency. Library Systems Branch,1975

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