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Empirical Modeling of the Economy and the Environment



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Empirical Modeling Of The Economy And The Environment

Mary Morgan, Frank den Butter



Empirical Modeling Of The Economy And The Environment:

Empirical Modeling of the Economy and the Environment Christoph Böhringer, Andreas Löschel, 2003-09-18 The papers presented in this volume address a wide range of policy themes in the context of environmental regulation Investigated issues include the interaction between environmental regulation and economic growth international competitiveness structural change pollution leakage technological innovation tax systems as well as implications for intergenerational and intragenerational burden sharing The contributors mostly employ econometric approaches or computable general equilibrium analysis Professionals and academics working in the field of environmental policy analysis will consider this book as a valuable source of information

Models of Economic Growth with Environmental Assets

A. Beltratti, 2013-03-09 The connection between economic growth and the quality of the environment is a popular subject Since the second half of the 1980s there has been an increasingly frequent use of the term sustainable development to refer to the preoccupation that the production of goods and services may decrease standards of living It is natural to analyze this question from the point of view of economic models which may be helpful in at least identifying the main factors behind such preoccupations and perhaps in suggesting policy measures Indeed models are useful to discuss some relevant factors like the structure of production of the economy the type of preferences and goals pursued by agents and the elements of uncertainty This monograph will consider some of these themes there will be a study of the analytical framework which can be used for the purpose of defining and analyzing sustainability and some discussion of how to calibrate a restricted version of the model to empirical data There will be also some analysis about which type of uncertainty should be incorporated into the model and which objective functions may be useful for policy purposes Also there will be discussions about the key variables which should be included and some description of a general framework

Theory and Implementation of Economic Models for Sustainable Development

J.C. van den Bergh, M.W. Hofkes, 2013-03-09 There is widespread concern for long term environmental issues in relation to economic processes and developments Among the concerned scientists are economists who have taken up the challenge to apply economic insights and tools for the study of long term environment economy interactions and to give the concept of sustainable development economic hands and feet This book presents a pluralistic perspective on efforts problems and successes in this area This collection of papers was originally prepared for an international symposium titled Economic Modelling of Sustainable Development Between Theory and Practice which was hosted by the Vrije Universiteit in Amsterdam on December 20th 1996 The main motivation for this symposium was that the usefulness of the concept of sustainable development for theoretical and applied modelling is still being debated growth theorists resource economists ecological economists policy makers and many others are trying to deal with the concept in various and sometimes conflicting ways The aim of the symposium was to bring together different theoretical and implementational perspectives on modelling for sustainable development We hope that this volume will inform a wide

audience about the perspectives and progress in this important area of research as well as stimulate further research notably on applied modelling and practical methods for the analysis of sustainable development at various spatial scales The papers have in due course been revised several times based on comments made by discussants referees and the editors

Modelling the Economy and the Environment Bjarne Madsen, Chris Jensen-Butler, Jorgen Birk Mortensen, Anne M. Bruun Christensen, 2012-12-06 This book is based upon contributions to a Scandinavian conference on Transport Agriculture and the Environment in a Regional and National Development Perspective Quantitative and Modelling Approaches organised by AKF the Institute of Local Government Studies Denmark which was held on the Danish island of Bornholm in December 1993 The chapters represent leading edge research in Scandinavia at the end of 1993 into modelling relationships between the economy and the environment embracing both regional and sectoral perspectives The publication of this volume will hopefully contribute to dissemination of knowledge about the very active Scandinavian research tradition in this field a research tradition which is related to a long standing engagement of Scandinavian countries with environmental issues The contributors come from Denmark Norway and Sweden and the collection is prefaced by two chapters from well known Dutch researchers traditionally regarded by Scandinavians as close neighbours to the Scandinavian modelling tradition The support of SOM Society Economy and Environment an open research centre financed by the Danish Environmental Research Programme and of AKF in the organisation of the original conference and the preparation of this book is gratefully acknowledged It was with great sadness that the editors learned of the death of one of the contributors Poul Erik Stryg during the preparation of the book

Applied Research in Environmental Economics Christoph Böhringer, Andreas Lange, 2006-03-30 Sustainable development climate policy and biodiversity conservation are examples of issues on the current political agenda in many countries These themes are also subject to economic research and economic insights are increasingly finding their way into the design of environmental policy Still the reception of academic findings by policy makers as well as the timely identification of policy relevant questions by economic researchers often seem to be problematic This volume attempts to vitalise the exchange between policy makers and academics It offers a snapshot of environmental economic research on a range of policy relevant problems Academic contributions are complemented by views of policy makers on priority fields in environmental policy the usefulness of academic research for decision making and requirements to applied research in the future

Economics of the Environment Horst Siebert, 2008-01-03 The book interprets nature and the environment as a scarce resource It offers a theoretical study of the allocation problem and describes different policy approaches to the environmental problem The entire spectrum of the allocation issue is studied The author incorporates several economic approaches including neoclassical analysis the public goods approach and optimization theory The different aspects of environmental allocation are studied in the context of a single model that is used throughout the book The sixth edition includes new sections on ethical aspects of environmental evaluation and international emission trading and

biodiversity **Environmental Economics** Alfred Endres, 2011 How can we design environmental policy that achieves ambitious ecological goals without burdening society with excessive costs How can effective international agreements for example on global warming be designed This textbook discusses issues such as these in an intelligible manner for students The book uses little mathematical analysis relying on verbal and graphical analysis **Political Economy of Development and Environmental Degradation in India** Manasranjan Dashmishra, 2011 **Environmental Efficiency, Innovation and Economic Performances** Anna Montini, Massimiliano Mazzanti, 2010-07-02 This volume brings together microeconomics studies on firms eco and economic performance both in the industrial and service sector by considering a sector based perspective rooted mainly in the exploitation of NAMEA data at regional level and a macroeconomic analysis of the environment income and welfare *Environmental Economics and the International Economy* Laura Marsiliani, Michael Rauscher, Cees Withagen, 2006-04-11 This volume includes a selection of papers presented at the EURESCO Conference The International Dimension of Environmental Policy held in Kerkrade The Netherlands in October 2000 We would like to thank those who made this conference possible the European Science Foundation ESF which provided financial and organizational support the European Commission EURESCO Programme the Netherlands Organization for Scientific Research NWO which sponsored the conference under the research project Environmental Policy International Competitiveness and the Location Behavior of Firms and GLOBUS Tilburg University The European Science Foundation ESF the EURESCO Programme NWO and GLOBUS cannot be held responsible for the contents and or opinions expressed in this volume Our gratitude also goes to the people who assisted us in editing this volume the papers referees the authors our publisher Kluwer and Ineke Lavrijssen and Evelyn Rogge for invaluable editorial help at different stages of this project Laura Marsiliani W Allen Wallis Institute of Political Economy University of Rochester USA and Department of Economics and Finance University of Durham United Kingdom Michael Rauscher Institute of Economics Rostock University Germany Cees Withagen Department of Economics and Center Tilburg University The Netherlands and Department of Economics Vrije Universiteit Amsterdam The Netherlands Marsiliani L Rauscher M and Withagen C eds *Environmental Economics and the International Economy* vii

Frontiers of Environmental Economics Henk Folmer, 2002-01-01 This is a book of uncompromising technical excellence which does exactly what it promises to do chart the cutting edge frontiers of environmental and ecological economics for the benefit of graduate students professional academics and policy making elites The authors are mostly academic leaders in the field the topics are hot the contributors make the links between abstract theorizing and the concrete mental framing of issues that is a prerequisite for sound policy design The papers in this collection exhibit rigorous and robust analytical frameworks presented intuitively in clear words as well as mathematically and harnessed to wide ranging up to date bibliographies which quickly open the door into recent literature this will be a book to keep on a convenient shelf for reference purposes it is hard to imagine a graduate student reading this book and failing to spot opportunities to colonize new theoretical territory beyond

the present frontier or to explore empirically the areas outlined in these chapters Geoffrey Bertram Papers in Regional Science Top European and American scholars contribute to this cutting edge volume on little researched areas of environmental and resource economics Topics include spatial economics poverty and development experimental economics large scale risk and its management organizational economics technological innovation and diffusion and many more The common thread is the language and methodology of economics yet the work aims to reach an audience wider than academia others such as researchers and policymakers in the public sector professional staff in research institutes and think tanks and environmental consultants will all benefit from an awareness of these crucial issues which if not considered now will become the problems of the future

Empirical Models and Policy Making Mary Morgan, Frank den Butter, 2003-09-02 This collection written by highly placed practitioners and academic economists provides a picture of how economic modellers and policy makers interact The book provides international case studies of particular interactions between models and policy making and argues that the flow of information is two way

Recent Developments in Green Finance, Green Growth and Carbon Neutrality Muhammad Shahbaz, Kangyin Dong, Daniel Balsalobre-Lorente, Ayfer Gedikli, 2023-08-18 Recent Developments in Green Finance Green Growth and Carbon Neutrality explains the role of green finance in transforming the global economy into a green and carbon neutral one The book explores the synergy between green growth strategy and green finance policy 2G and carbon neutrality in an economic environmental financial framework that helps readers understand how to design a feasible path toward achieving carbon neutrality through economic initiatives and financial innovations It shows how to apply the notion of green growth to organizations and illustrates the need for a theory of energy economics that estimates the benefits of a low carbon transition and carbon neutrality Sections include historical background relevant literature necessary to understand topics the notions of green finance green growth and carbon neutrality from an economic perspective Other sections cover models and methods of carbon neutrality assessment the nexus between carbon neutrality and economic development green growth and financial development green finance and green energy exploration and consumption and more Two chapters specifically focused on UN SDGs 7 and 13 round out the book and it concludes with a final section that gathers and integrates the concepts discussed throughout the book Uses green finance and green growth to develop a framework for achieving a carbon neutral society Brings together current knowledge in this field of research then goes further to explain relevant concepts and the theoretical and empirical relationship between carbon neutrality green growth and green finance Includes two chapters dedicated to a discussion of the United Nations Sustainable Development Goals 7 and 13 which underpin this book

Modelling the Costs of Environmental Policy Rob B. Dellink, 2005-01-01 Extending economic models to include environmental emissions and environmental policy is now commonplace Yet the linking is often ad hoc and based on peculiar assumptions In this book Rob Dellink shows how emissions and emission reduction policies for five different environmental issues can be included in a forward looking

computable general equilibrium model building emissions into production and consumption functions At the technical level the book is superb and stands out for its exact specification of how this is done Richard S J Tol Hamburg University Germany Free University Amsterdam The Netherlands and Carnegie Mellon University US This important new book enhances our understanding of the dynamic interactions between economic activity economic growth pollution abatement and environmental policy It addresses one main policy problem how can the direct and indirect costs of environmental policy for multiple pollutants be properly assessed in an applied model *Globalisation, Economic Transition and the Environment*

Phillip Lawn, 2013-09-30 This book focuses on three critical issues pertaining to the broader goal of sustainable development _ namely the degenerative forces of globalisation ecological sustainability requirements and how best to negotiate the economic transition process **Assessment of Energy-Environment-Economy Interrelations** George E.

Halkos, 2020-05-27 Energy consumption and economic growth have been of great interest to researchers and policy makers Knowing the actual causal relationship between energy and the economy with respect to environmental degradation has important implications for modeling environmental and growth policies The eleven chapters included herein aim to help researchers academicians and especially decision makers to understand relevant issues and adopt appropriate methods to tackle and solve relevant environmental problems Various methods from different disciplines are proposed and applied to various environmental and energy issues **Economic Development and Environmental Sustainability** Ramón

López, Michael A. Toman, 2006-06-29 Economic growth as we know it today cannot persist indefinitely if it entails continuous degradation of natural resources and the environment While in a few countries around the world it appears that environmental degradation has been the result of rapid economic growth in the vast majority of the developing countries the environment has been equally spoiled despite slow or even negative economic growth This book provides new insights on the common roots of economic stagnation poverty and environmental degradation which unfortunately generally reside in misguided government policies and priorities By doing this the volume seeks to provide a broader policy option framework than those found in conventional policy analyses mainly dominated by the Washington Consensus It shows that a major omission of the conventional view is that governments tend to allocate government expenditures in a biased way favouring subsidies to the economic elites to the detriment of investments in public goods including human capital R D as well as the development of institutions environmental and otherwise which are vital for long run growth poverty reduction and environmental sustainability **Handbook of Environmental and Resource Economics** Jeroen C. J. M. Van den

Bergh, 2002-01-01 This major reference book comprises specially commissioned surveys in environmental and resource economics written by an international team of experts Authoritative yet accessible each entry provides a state of the art summary of key areas that will be invaluable to researchers practitioners and advanced students *Handbook of*

Environmental Economics Karl-Göran Mäler, Jeffrey R. Vincent, 2003 The Handbook of Environmental Economics focuses on

the economics of environmental externalities and environmental public goods Volume I examines environmental degradation and policy responses from a microeconomic institutional standpoint Its perspective is dynamic including a consideration of the dynamics of natural systems and global with attention paid to issues in both rich and poor nations In addition to chapters on well established topics such as the theory and practice of pollution regulation it includes chapters on new areas of environmental economics research related to common property management regimes population and poverty mechanism design political economy of regulation experimental evaluations of policy instruments and technological change The Oxford Handbook of the Malawi Economy Hopestone Chavula, Thomas Chataghalala Munthali, Harold P. E. Ngalawa, Boniface Dulani, 2024-08-28 The Oxford Handbook of the Malawi Economy is an essential reference material with new research contributions and insights across the different areas of economic development to shape the country s future growth and development trajectory The volume is the first publication that tries to assess the performance of the Malawi economy since independence by examining how the underpinning political and economic history and the associated policies and strategies have affected the country s long term socio economic development It captures a broad range of opinions approaches and conclusions which serve to underline both the complexity of the issues and challenges facing Malawi and the immense difficulties in tackling them Common themes emerge as many authors agree that the country needs to learn from its past experiences in terms of policy design and implementation and the need to implement dynamic policies that could spur productive and sustained growth and development by tackling challenges associated with the continuously evolving global economic environment

Unveiling the Magic of Words: A Review of "**Empirical Modeling Of The Economy And The Environment**"

In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their ability to kindle emotions, provoke contemplation, and ignite transformative change is actually awe-inspiring. Enter the realm of "**Empirical Modeling Of The Economy And The Environment**," a mesmerizing literary masterpiece penned with a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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