

# TYPES OF ECONOMIC MODELS



## Empirical Models

Mathematical models are designed to be used with data.

01



## Visual Models

Pictures of an abstract economy- graphs with curves & lines that tell an economic story.

04



## Expectations-Enhanced Models

Incorporate economic expectations, such as inflationary expectations.

02



## Static & Dynamic Models

Most economic models are comparative static ones. Dynamic models incorporate time into their structure.

05



## Mathematical Models

Systems of simultaneous equations with an equal or greater number of economic variables.

03



## Simulation Models

Must be used with computers. They are fundamentally mathematical, but their mathematical complexity is transparent to the user.

06

# Economic Modelling

**Terry Barker**



## **Economic Modelling:**

Economic Model Building Frank Neal, Sir Robert Minshull Shone, 1976 Textbook on the theoretics and methodology of economic model construction discusses the use of the scientific method and creative thinking in the construction of dynamic models incl Economic policy models and econometrics models etc One page bibliography Economic Modelling in the OECD Countries Homa Motamen-Scobie, 2012-12-06 among the 159 member countries of the United Nations Organization which are treated as country units while smaller countries are grouped together in regions The number of equations used is approximately 13 700 while the number of software steps for computation is approximately 100000 Computation including tabulation can nevertheless be performed very rapidly and only about 20 minutes is required to make forecasts from the present up to the year 2000 The FUGI model is at present being used by the Projections and Perspectives Studies Branch Department of International Economic and Social Affairs of the United Nations for simulations of United Nations medium and long term international development strategies while the Project LINK model is being used for short term forecasts Onishi 1985 Stimulated by our latest joint research with the United Nations University on a global early warning system for displaced persons we have felt the need for our FUGI model to go beyond its present capacities centred on an economic model in the rather traditional restricted sense of the term and to develop into a model that can in the future analyse global problematiques or global complexes of symptoms and complicated questions including various types of environmental problems and the sorts of displaced persons issues to which we are now directing our attention We are thus expanding the scope of our fifth generation FUGI model presently under development to deal with such issues Growth Theory, Nonlinear Dynamics, and Economic Modelling William A. Brock, 2001-01-01 Buz Brock's contribution to economic theory in general and economic dynamics in particular are characterized by an unmatched richness of ideas and by deep theoretical empirical as well as computational analysis Brock's contribution to economic dynamics range from one extreme of the field global stability of stochastic optimal growth models to another extreme market instability and nonlinearity in economic and financial modelling and data analysis But his work also includes environmental and economic policy issues and more recently the modelling of markets as complex adaptive systems This collection of essays reflects Brock's richness of ideas that have motivated economists for more than three decades already and will continue to influence many economists for the next decades to come Cars H Hommes University of Amsterdam The Netherlands Buz Brock has been from the beginning of his career one of the most original thinkers in dynamic economics His early work showed that growth with random elements could be studied effectively and above all posed exactly the right questions His more recent work has brought complexity theory to the fore and shown its implications for financial and other markets In the process he has both introduced and used econometric tools to show the relevance of his work to empirically observed phenomena It is very useful to have his work in collected form Kenneth J Arrow Stanford University US This outstanding collection of William Brock's essays illustrates the

power of dynamic modelling to shed light on the forces for stability and instability in economic systems The articles selected reflect his best work and are indicative both of the type of policy problem that he finds challenging and the complex methodology that he uses to solve them Also included is an introduction by Brock to his own work which helps tie together the main aspects of his research to date *Economic Modelling at the Bank of England* G. B. Henry, 2013-03-12 J S FLEMMING The Bank of England's role as a leading central bank involves both formal and informal aspects At a formal level it is an adviser to HM Government whilst at an informal level it is consulted by domestic and overseas institutions for advice on many areas of economic interest Such advice must be grounded in an understanding of the workings of the domestic and international economy a task which becomes ever more difficult with the pace of change both in the economy and in the techniques which are used by professional economists to analyse such changes The Bank's economists are encouraged to publish their research whenever circumstances permit whether in refereed journals or in other ways In particular we make it a rule that the research underlying the Bank's macroeconomic model to which outside researchers have access through the ESRC Economic and Social Research Council macromodelling bureau should be adequately explained and documented in published form This volume expands the commitment to make research which is undertaken within the Economics Division of the Bank of England widely available Included here are chapters which illustrate the breadth of interests which the Bank seeks to cover Some of the research is as would be expected directly related to the specification of the Bank's model but other aspects are also well represented **Economic Modelling at the Banque de France** Michel Boutillier, Jean Cordier, 2003-09-02 *Economic Modelling at the Banque de France* examines the various models of the French economy used at its central bank *System-Theoretic Methods in Economic Modelling II* S. Mittnik, 2014-06-28 *System Theoretic Methods in Economic Modelling II* complements the editor's earlier volume bringing together current research efforts integrating system theoretic concepts with economic modelling processes The range of papers presented here goes beyond the long accepted control theoretic contributions in dynamic optimization and focuses on system theoretic methods in the construction as well as the application stages of economic modelling This volume initiates new and intensifies existing debate between researchers and practitioners within and across the disciplines involved with the objective of encouraging interdisciplinary research The papers are split into four sections estimation filtering and smoothing problems in the context of state space modelling applying the state space concept to financial modelling modelling rational expectation and a miscellaneous section including a follow up case study by Tse and Khilnani on their integrated system model for a fishery management process which featured in the first volume **Environment and Transport in Economic Modelling** Roberto Roson, Kenneth A. Small, 2013-06-29 The analysis of the relationship between transport and environmental policy invites an interdisciplinary treatment and a variety of approaches and rightly so An important subset of the approaches used involves economic analysis Economic approaches often consider pricing policies attempting to evaluate their effectiveness in

comparison with more traditional measures such as command and control regulation and directed technological innovation. Another important subset of approaches involves simulation modelling where key relationships are presented mathematically so that their influence can be quantified and their interrelationships discerned precisely. This book treats the intersection of these two subsets: simulation models with a strong economic content. This intersection defines a broad but powerful way to study environment and transport. Its breadth is illustrated by the wide range of policies treated here from carbon taxes to speed limits. Its power derives from the way insights into interrelated actions and the role of markets, the strong points of economic theory are cast into a form suitable for making quantitative predictions about the results of policies. Case studies are used to show how simulation models can be designed and used to quantify the effectiveness of economic policies in terms of transport systems management and environmental protection, the emphasis being on the role of the markets in tracing the many effects that policies have both anticipated and otherwise.

### **Ecological-Economic Modelling for Biodiversity**

**Conservation** Martin Drechsler, 2020-03-26 Presents the state of the art of model based integration of ecology and economics in the field of biodiversity conservation. [Social Accounting and Economic Modelling for Developing Countries](#)

S.I. Cohen, 2017-07-05 This title was first published in 2002. Providing the first comprehensive systematic assessment of the social accounting matrix SAM in twenty developing countries, Solomon Cohen introduces key research in the area and looks at its practical applications. Divided into two parts, the first part of each chapter deals with the construction and structural analysis of the SAM. Examines refinements of the SAM as a self-contained model of the economy, study of SAM multipliers of growth and distribution. Explores decompositions of multiplier effects and cross country and inter temporal comparative analysis of changing economic structures. The second part looks at the SAM as a modular framework and a database which can be flexibly used in economic policy modelling. This valuable reference and the accompanying volume *Social Accounting or Industrial and Transition Economies* will be an essential addition to the bookshelves of researchers, instructors, policy makers, scholars and libraries.

### **Economic Modelling of Climate Change and Energy Policies**

Carlos de Miguel, Xavier Labandeira Villot, Baltasar Manzano, 2006-01-01 Climate change and energy consumption are at the forefront of current environmental debate. While energy is essential to the functioning and survival of our societies, the environmental impact that energy consumption is having, particularly on climate change, is a growing concern and the design and practicalities of energy and energy related environmental policies are under constant scrutiny. This innovative new book not only addresses the economic assessment of environmental and energy policies but also discusses the efficiency and distributional consequences these policies have for producers and consumers. With contributions from leading academics in the field, this comprehensive volume uses a variety of methodological approaches with which to explore a number of pertinent issues including several studies on the EU Emission Trading System as well as more advanced topics such as indeterminacy and optimal environmental public policies, energy saving, technological progress, oil shocks and energy transitions and policy design.

Combining theoretical and empirical work this timely book is a significant contribution to the existing literature and deals with issues at the frontier of current economic knowledge Economic Modelling of Climate Change and Energy Policies is a unique and informative book and will have widespread appeal amongst scholars students and policymakers

**Qualitative Theory of Dynamical Systems, Tools and Applications for Economic Modelling** Gian Italo Bischi, Anastasiia

Panchuk, Davide Radi, 2016-06-02 The book presents the lectures delivered during a short course held at Urbino University in summer 2015 on qualitative theory of dynamical systems included in the activities of the COST Action IS1104 The EU in the new economic complex geography models tools and policy evaluation It provides a basic introduction to dynamical systems and optimal control both in continuous and discrete time as well as some numerical methods and applications in economic modelling Economic and social systems are intrinsically dynamic characterized by interdependence nonlinearity and complexity and these features can only be approached using a qualitative analysis based on the study of invariant sets equilibrium points limit cycles and more complex attractors together with the boundaries of their basins of attraction which requires a trade off between analytical geometrical and numerical methods Even though the early steps of the qualitative theory of dynamical systems have been in continuous time models in economic and social modelling discrete time is often used to describe event driven often decision driven evolving systems The book is written for Ph D and master s students post doctoral fellows and researchers in economics or sociology and it only assumes a basic knowledge of calculus However it also suggests some more advanced topics

**System-Theoretic Methods in Economic Modelling I** S. Mittnik, 2014-06-28 The value of applying system theoretic concepts to economic modelling problems arises from the fact that it offers a unifying framework for modelling dynamic systems In addition to offering this powerful conceptual framework it provides a wide range of tools useful in applied work System theoretic techniques enter predominantly two stages of economic modelling efforts the stage of model construction and the stage of model application in accordance with the modelling The objective of this and subsequent volumes on System Theoretic Methods in Economic Modelling I is to initiate and or intensify dialogues between researchers and practitioners within and across the disciplines involved This first volume brings together papers exhibiting a wide range of system theoretic techniques and applications to economic problems The papers have been divided into two groups following roughly but not necessarily the above classification into the construction and application stages of economic modelling The papers in the first group focus on the identification of dynamic and static systems while the papers in the second group address dynamic optimization problems

**Applied Political Economic Modelling** Paul S.A.

Renaud, 2012-12-06 project was the development and application of a model of central and local government behavior It was carried out in collaboration with the Dutch Department of Home Affairs during the period September 1985 April 1987 The project s aim was the study of the determinants of local government decisionmaking in the Netherlands and the implications of so called intergovernmental relations for local government behavior During that project I was assisted by Sander Helder

and Marc Tigche1aar The results of that project appeared in a book co authored by Frans van Winden entitled Gemeentefinancien en Gedecentraliseerde Besluitvorming Local Public Finance and Decentralized Decisionmaking This book is for the time being the end product of my research on government behavior Much more research is needed on the study of government behavior and the application of models which from an economic point of view focus on the implications of the interaction between economics and politics The knowledge of this process is not only interesting as such but also from a practical point of view without a good positive analysis of the behavior of the government in modern industrialized economies it is neither possible to see through its operations nor to use its policies as an effective instrument in the pursuit of economic targets *Economic Modelling and Computer Programming* Philip Ripley,Hamid Seddighi,1988

**Biodiversity and economic modelling:** Steffen Brøgger-Jensen,Simon Laursen Bager,Jesper Karup Pedersen,Michael Munk Sørensen,2018-10-11 Is it possible linking biodiversity to macro economic models thereby increasing our understanding of how economic activities affect biodiversity et vice versa It is the key question that this report aims at answering on the basis of existing statistics indicators and models in the Scandinavian countries The economic sectors identified as relevant for biodiversity are agriculture forestry fishery tourism transport and energy especially hydropower The main pressure types analysed include habitat loss and degradation climate change excessive nutrient load and other forms of pollution over exploitation and unsustainable use and invasive alien species A set of recommendations for further work are made focusing on impacts of economic activities on biodiversity *Econometric Modelling of World Shipping* M. Beenstock,A. Vergottis,1993-09-30 Econometric Modelling of World Shipping describes an economic model that may be used to forecast world shipping markets A unique feature of the model is that it relates to both sectors of world shipping the dry cargo sector and the tanker sector This is the first time that a model of this type has been published This book also breaks new ground in explaining the behaviour of vessel prices both new and secondhand *Economic Models for Policy Making* Solomon Cohen,2013-05-02 Over the past decades many different kinds of models have been developed that have been of use to policy makers but until now the different approaches have not been brought together with a view to enhancing the systematic unification and evaluation of these models This new volume aims to fill this gap by bringing together four decades worth of work by S I Cohen on economic modelling for policy making Work on older models has been rewritten and brought fully up to date and these older models have therefore been brought back to the fore both to assess how they influenced more recent models and to see how they could be used today The focus of the book is on models for development policies in developing economies but there are some chapters that relate to economic policies in transition and developed economies The policy areas covered are of typical interest in developing and transition economies They include those relating to trade liberalization reforms sustainable development industrial development agrarian reform growth and distribution human resource development and education public goods and income transfers Each chapter contains a brief assessment of the

empirical literature on the economic effects of the policy measures discussed in the chapter The book presents a platform of economic modelling that can serve as a refresher for practising professionals as well as a reference companion for graduates engaging in economic modelling and policy preparations Disaggregation in Econometric Modelling (Routledge Revivals)

Terry Barker, 2014-02-04 In this book first published in 1990 leading theorists and applied economists address themselves to the key questions of aggregation The issues are covered both theoretically and in wide ranging applications Of particular interest is the optimal aggregation of trade data the need for micro modelling when important non linearities are present for example tax exhaustion in modelling company behaviour and the use of a micro model to stimulate labour supply behaviour in a macro model of the Netherlands *Econometric Modelling of European Money Demand* Engelbert

Plassmann, 2012-12-06 The introduction of a single European currency constitutes a remarkable instance of internationalization of monetary policy Whether a concomitant internationalization can be detected also in the econometric foundations of monetary policy is the topic dealt with in this book The basic theoretical ingredients comprise a data driven approach to econometric modelling and a generalized approach to cross sectional aggregation The empirical result is a data consistent structural money demand function isolated within a properly identified dynamic macroeconomic system for Europe The book itself evolved from a research project within the former Sonderforschungsbereich SFB 178 Internationalization of the Economy at the University of Konstanz Its finalization entails a due amount of gratitude to be extended into several directions I am personally indebted first of all to my academic supervisor Professor Dr Nikolaus Laufer for originally inspiring this work and for meticulously perusing its eventual result Professor Dr Winfried Pohlmeier as a second supervisor provided valuable confidence bounds around an earlier draft The comments of both supervisors contributed substantially to the present shape of the book I am institutionally indebted to the University of Konstanz notably its Faculty of Economics and Statistics for continuous provision of an excellent research environment and to the Deutsche Forschungsgemeinschaft in Bonn for generous sponsorship of the former SFB whose financial support during that period is gratefully acknowledged I am also indebted to Dresdner Bank AG Frankfurt Risk Methodology Trading for benign tolerance of all distractions associated with the preparation of the final manuscript Statistical Foundations of Econometric Modelling Aris Spanos, 1986-10-30 A thorough foundation in probability theory and statistical inference provides an introduction to the underlying theory of econometrics that motivates the student at a intuitive as well as a formal level



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