

Mathematical Theories of Economic Growth

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Econometrics and the Philosophy of Economics Bernt P. Stigum, 2015-12-29 As most econometricians will readily agree the data used in applied econometrics seldom provide accurate measurements for the pertinent theory's variables Here Bernt Stigum offers the first systematic and theoretically sound way of accounting for such inaccuracies He and a distinguished group of contributors bridge econometrics and the philosophy of economics two topics that seem worlds apart They ask How is a science of economics possible The answer is elusive Economic theory seems to be about abstract ideas or it might be said about toys in a toy community How can a researcher with such tools learn anything about the social reality in which he or she lives This book shows that an econometrician with the proper understanding of economic theory and the right kind of questions can gain knowledge about characteristic features of the social world It addresses varied topics in both classical and Bayesian econometrics offering ample evidence that its answer to the fundamental question is sound The first book to comprehensively explore economic theory and econometrics simultaneously *Econometrics and the Philosophy of Economics* represents an authoritative account of contemporary economic methodology About a third of the chapters are authored or coauthored by Heather Anderson Erik Birn Christophe Bontemps Jeffrey A Dubin Harald E Goldstein Clive W J Granger David F Hendry Herman Ruge Jervell Dale W Jorgenson Hans Martin Krolzig Nils Lid Hjort Daniel L McFadden Grayham E Mizon Tore Schweder Geir Storvik and Herman K van Dijk *Mathematical Theories of Economic Growth* Edwin Burmeister, A. R. Dobell, R. M. Solow, S. J. Turnovsky, 1973 **Mathematical Theory on Economic Growth** Edwin Burmeister, A. Rodney Dobell, 1970 **Recursive Methods in Economic Dynamics** Nancy L. Stokey, Robert E. Lucas Jr., 1989-10-10 This rigorous but brilliantly lucid book presents a self contained treatment of modern economic dynamics Stokey Lucas and Prescott develop the basic methods of recursive analysis and illustrate the many areas where they can usefully be applied **Lectures on Mathematics for Economic and Financial Analysis** Giorgio Giorgi, Bienvenido Jiménez, Vicente Novo, 2025-03-21 This book offers a comprehensive yet approachable introduction to essential mathematical concepts tailored specifically for undergraduate and first year graduate students in Economics and Social Sciences Based on lectures delivered at the University of Pavia's Department of Economics and Management and also in UNED Department of Applied Mathematics in Madrid it aims to equip students with the mathematical tools necessary to better understand their courses in economics and finance where math is applied directly Unlike texts focused on formalized topics like Mathematical Economics or Operations Research this book presents basic mathematical principles and methods that are immediately

relevant to students With a clear accessible approach it includes numerous examples some with economic applications to illustrate key concepts and make them easier to grasp The authors have carefully chosen proofs that are straightforward and beneficial for students to encounter offering an introduction to important proof techniques without overwhelming complexity The book also provides a select bibliography allowing readers to explore topics in greater depth if desired Drawing on years of teaching experience the authors have created a valuable resource that serves as both a foundation and a practical guide for students navigating the mathematical aspects of economics and social science courses

From Catastrophe to Chaos: A General Theory of Economic Discontinuities J. Barkley Rosser, 2000-06-30 From Catastrophe to Chaos A General Theory of Economic Discontinuities presents an unusual perspective on economics and economic analysis Current economic theory largely depends upon assuming that the world is fundamentally continuous However an increasing amount of economic research has been done using approaches that allow for discontinuities such as catastrophe theory chaos theory synergetics and fractal geometry The spread of such approaches across a variety of disciplines of thought has constituted a virtual intellectual revolution in recent years This book reviews the applications of these approaches in various subdisciplines of economics and draws upon past economic thinkers to develop an integrated view of economics as a whole from the perspective of inherent discontinuity

Mathematical Models and Their Analysis Frederick Y. M. Wan, 2018-03-20 A great deal can be learned through modeling and mathematical analysis about real life phenomena even before numerical simulations are used to accurately portray the specific configuration of a situation Scientific computing also becomes more effective and efficient if it is preceded by some preliminary analysis These important advantages of mathematical modeling are demonstrated by models of historical importance in an easily understandable way The organization of Mathematical Models and Their Analysis groups models by the issues that need to be addressed about the phenomena The new approach shows how mathematics effective for one modeled phenomenon can be used to analyze another unrelated problem For instance the mathematics of differential equations useful in understanding the classical physics of planetary models fluid motion and heat conduction is also applicable to the seemingly unrelated phenomena of traffic flow and congestion offshore sovereignty and regulation of overfishing and deforestation The formulation and in depth analysis of these and other models on modern social issues such as the management of exhaustible and renewable resources in response to consumption demands and economic growth are of increasing concern to students and researchers of our time The modeling of current social issues typically starts with a simple but meaningful model that may not capture all the important elements of the phenomenon Predictions extracted from such a model may be informative but not compatible with all known observations so the model may require improvements The cycle of model formulation analysis interpretation and assessment is made explicit for the modeler to repeat until a model is validated by consistency with all known facts

The Hamiltonian Approach to Dynamic Economics David Cass, Karl Shell, 2014-05-10 The Hamiltonian Approach to Dynamic Economics focuses on the

application of the Hamiltonian approach to dynamic economics and attempts to provide some unification of the theory of heterogeneous capital. Emphasis is placed on the stability of long run steady state equilibrium in models of heterogeneous capital accumulation. Generalizations of the Samuelson-Scheinkman approach are also given. Moreover, conditions are sought on the geometry of the Hamiltonian function that suffice to preserve under not necessarily small perturbation the basic properties of the Hamiltonian dynamical system. Comprised of eight essays, this book begins with an introduction to Hamiltonian dynamics in economics followed by a discussion on optimal steady states of n sector growth models when utility is discounted. Optimal growth and decentralized or descriptive growth models in both continuous and discrete time are treated as applications of Hamiltonian dynamics. The problem of optimal growth with zero discounting is considered with emphasis on a steepness condition on the Hamiltonian function. The general problem of decentralized growth with instantaneously adjusted expectations about price changes is also analyzed along with the global asymptotic stability of optimal control systems with applications to the theory of economic growth. This monograph will be of value to mathematicians and economists.

International Trade Theory Wei-Bin Zhang, 2008-04-23 The development of international trade theory has created a wide array of different theories, concepts, and results. Nevertheless, trade theory has been split between partial and conflicting representations of international economic interactions. Diverse trade models have coexisted but not in a structured relationship with each other. Economic students are introduced to international economic interactions with severally incompatible theories in the same course. In order to overcome incoherence among multiple theories, we need a general theoretical framework in a unified manner to draw together all of the disparate branches of trade theory into a single organized system of knowledge. This book provides a powerful but easy-to-operate engine of analysis that sheds light not only on trade theory per se but on many other dimensions that interact with trade, including inequality, saving propensities, education, research policy, and knowledge. Building and analyzing various tractable and flexible models within a compact whole, the book helps the reader to visualize economic life as an endless succession of physical capital accumulation, human capital accumulation, innovation wrought by competition, monopoly, and government intervention. The book starts with the traditional static trade theories. Then it develops dynamic models with capital and knowledge under perfect competition and/or monopolistic competition. The uniqueness of the book is about modeling trade dynamics.

Companion to Contemporary Economic Thought Michael Bleaney, David Greenaway, Dr Ian Stewart, Ian Stewart, 1992-01-09 41 in-depth essays cover current economic theory and applied economics in a single comprehensive volume. Interfaces section considers economics as it relates to other disciplines. Extensive notes, bibliographies, and suggestions for further reading. Detailed index of Topics and People. A treasure house of stimulating argument and vast amounts of mostly well-marshalled information. The market for general survey volumes, while already crowded, should surely find room for this offering. The World Economy. The work under review scores very high marks. The Economic Journal. The chapters are written by people who are excellently

qualified and frequently well known in their field The book's strengths lie in the range of contributors the very high quality of most of the contributors and its emphasis on applied economics For these reasons alone it is an important book which will be invaluable both to students and to economists wishing to learn about developments in other branches of their discipline

Economica **Introduction to Mathematical Economics** M.C. Kemp, Y. Kimura, 2012-12-06 Our objectives may be briefly stated They are two First we have sought to provide a compact and digestible exposition of some sub branches of mathematics which are of interest to economists but which are underplayed in mathematical texts and dispersed in the journal literature Second we have sought to demonstrate the usefulness of the mathematics by providing a systematic account of modern neoclassical economics that is of those parts of economics from which jointness in production has been excluded The book is introductory not in the sense that it can be read by any high school graduate but in the sense that it provides some of the mathematics needed to appreciate modern general equilibrium economic theory It is aimed primarily at first year graduate students and final year honors students in economics who have studied mathematics at the university level for two years and who in particular have mastered a full year course in analysis and calculus The book is the outcome of a long correspondence punctuated by periodic visits by Kimura to the University of New South Wales Without those visits we would never have finished They were made possible by generous grants from the Leverhulme Foundation Nagoya City University and the University of New South Wales Equally indispensable were the expert advice and generous encouragement of our friends Martin Beckmann Takashi Negishi Ryuzo Sato and Yasuo Uekawa Advances in Behavioral Economics

Friedel Bolle, Michael Carlberg, 2012-12-06 This volume is dedicated to Horst Todt who celebrated his seventieth anniversary on March 14 2000 All the contributors know Horst Todt personally and with the exception of two younger co authors have accompanied his scientific career for several years some as his assistants some as his colleagues at the Frankfurt or Hamburg University some as fellow members in scientific societies All who know him acknowledge inspiring conversations on a broad field of issues often reaching far beyond the scope of economics Being friendly and entertaining and without exaggerated personal ambition he often initiated work which others completed In particular the two editors of this volume experienced and enjoyed the stimulating atmosphere at his Chair of Economics at the Hamburg University We like to remember these scientifically and personally fruitful years under the tutorship of Horst Todt The editors would like to thank the contributors to this volume for their readiness to cooperate and for the promptness of their delivery **Resource**

Allocation and Division of Space T. Fujii, R. Sato, 2012-12-06 This volume on the proceedings of a symposium on Resource Allocation and Division of Space represents a revised interest in the old problem of allocation and a fresh attack on the increasingly vital problem of space management The symposium was held at the Toba International Hotel near Nagoya Japan in December 1975 Although the contributions included in this volume are all broadly concerned with either resource allocation or spatial problems the editors have selected papers essentially on the basis of scientific merits and originality

rather than on the basis of narrowly focused topics and titles The result is that all of the papers included ranging from growth index number space density function factor mobility concentration and accumulation between sectors and spaces distributions relationship between spatial structure and organizational structure to the application of Lie group to production functions are of the highest quality It is the intention and belief of the editors that this collection of wide ranging but highly original papers is a major contribution to the advancement of economic science The editors feel that a symposium of this kind is worthwhile and should be held at regular intervals The list of contributions can be divided into two parts Part I consisting of papers 1 through 9 deals in general with allocation Papers 10 through 13 compose Part II which is primarily concerned with spatial problems Dynamics and Conflict in Regional Structural Change Manas Chatterji, Robert E.

Keunne, 1990-06-18 The second in a two volume tribute to Walter Isard the first being *New Frontiers in Regional Science* this book looks at dynamics and conflict in regional structural change Together they contain 50 papers by experts in this field and look at subjects such as location theory How to Become Wealthy and How to Grow That Wealth Dr. Abdoulaye

Keita, 2023-04-24 This book will help everyone become wealthy by creating and increasing wealth It will help corporations to grow their productivity production profitability and consequently their added value It will help international institutions such as the World Bank International Monetary Fund African Development Bank etc to improve their efficiency and efficacy It will help countries develop and grow their citizens well being It will help the entire world to reduce poverty and create prosperity for everybody For more information you may visit <https://www.facebook.com/profile.php?id=100092536546214> Optimal

Control Theory Suresh P. Sethi, 2022-01-03 This new 4th edition offers an introduction to optimal control theory and its diverse applications in management science and economics It introduces students to the concept of the maximum principle in continuous as well as discrete time by combining dynamic programming and Kuhn Tucker theory While some mathematical background is needed the emphasis of the book is not on mathematical rigor but on modeling realistic situations encountered in business and economics It applies optimal control theory to the functional areas of management including finance production and marketing as well as the economics of growth and of natural resources In addition it features material on stochastic Nash and Stackelberg differential games and an adverse selection model in the principal agent framework Exercises are included in each chapter while the answers to selected exercises help deepen readers understanding of the material covered Also included are appendices of supplementary material on the solution of differential equations the calculus of variations and its ties to the maximum principle and special topics including the Kalman filter certainty equivalence singular control a global saddle point theorem Sethi Skiba points and distributed parameter systems Optimal control methods are used to determine optimal ways to control a dynamic system The theoretical work in this field serves as the foundation for the book in which the author applies it to business management problems developed from his own research and classroom instruction The new edition has been refined and updated making it a valuable resource for graduate

courses on applied optimal control theory but also for financial and industrial engineers economists and operational researchers interested in applying dynamic optimization in their fields **Capital Theory** John Eatwell,Murray Milgate,Peter Newman,1990-07-23 This is an excerpt from the 4 volume dictionary of economics a reference book which aims to define the subject of economics today 1300 subject entries in the complete work cover the broad themes of economic theory This extract concentrates on the topic of capital theory

Reviewing **Mathematical Theories Of Economic Growth**: Unlocking the Spellbinding Force of Linguistics

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