

***Mathematics for Stability  
and Optimization  
of Economic Systems***

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YASUO MURATA

***ECONOMIC THEORY  
AND MATHEMATICAL ECONOMICS***

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# Mathematics For Stability And Optimization Of Economic Systems

**David Cass, Karl Shell**



## **Mathematics For Stability And Optimization Of Economic Systems:**

Mathematics for Stability and Optimization of Economic Systems Yasuo Murata, 2014-05-10 Economic Theory and Mathematical Economics Mathematics for Stability and Optimization of Economic Systems provides information pertinent to the stability aspects and optimization methods relevant to various economic systems This book presents relevant mathematical theorems sufficient to develop important economic systems including Leontief input output systems Keynesian dynamic models the Ramsey optimal accumulation systems and von Neumann expanding economic systems Organized into two parts encompassing nine chapters this book begins with an overview of useful theorems on matrices eigenvalue problems and matrices with dominant diagonals and P matrices This text then explores the linear transformations on vector spaces Other chapters consider the Hawkins Simon theorem concerning non negative linear systems This book discusses as well the dual linear relations and optimization methods applicable to inequality economic systems The final chapter deals with powerful optimal control method for dynamical systems This book is a valuable resource for mathematicians economists research workers and graduate students

**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

**Economic Dynamics: Methods and Models** G Gandolfo, 1971-01-01 Economic Dynamics Methods and Models aims to give a simple but comprehensive treatment of mathematical methods used in economic dynamics and show how they are utilized to build and to analyze dynamic models The text also focuses on methods and every mathematical technique introduced is followed by its application to selected models The book is divided into three different parts Part I Different Equations discusses general principles first order second order higher order equations simultaneous systems and their economic applications Part II Differential Equations also discusses the same areas as those in Part I but instead features

differential equations as what the section name suggests Part III More Advanced Material covers comparative statistics and the comparative principle stability of equilibrium and Liapunov's second method and linear mixed differential and difference equations as well as its other related topics The text is recommended for mathematicians and economists who have an idea on advanced mathematics and would like to know more about its applications in economics 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 **Economic Dynamics** Giancarlo Gandolfo, 1997 Treating the mathematical methods used in the economic dynamics this book shows how they are utilised to build and analyse dynamical models Accordingly the focus is on the methods and every new mathematical technique introduced is followed by its application to select economic models The mathematical methods covered range from elementary linear difference and differential equations and simultaneous systems to the qualitative analysis of non linear dynamical systems Stability considerations are stressed throughout including many advanced topics Bifurcation and chaos theory are also dealt with The reader is guided through a step by step analysis of each topic be it a mathematical method or an economic model The Study Edition also provides the reader with solutions to the numerous exercises Game Theory for Economic Analysis Tatsuro Ichiishi, 2014-06-28 Game Theory for Economic Analysis Financial Markets and the Macroeconomy Carl Chiarella, Peter Flaschel, Reiner Franke, Willi Semmler, 2009-06-02 This important new book from a group of Keynesian but nonetheless technically oriented economists explores one of the dominant paradigms in financial economics the intertemporal general equilibrium approach **Time and Space in Economics** T. Asada, T. Ishikawa, 2007-05-31 In August 2005 a small but important conference took place at Chuo University in Tokyo Japan The Chuo Meeting on Economics of Time and Space 2005 Chuo METS 05 aimed to enrich the respective disciplines of the economics of time dynamic economics and the economics of space spatial economics and to

expand their applicability in the real world The chapters contained herein are based on the papers presented at that conference

**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 is on static technology 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

*Studies in Macroeconomic Theory* Edmund S. Phelps, 2014-05-10 Studies in Macroeconomic Theory Volume 1 Employment and Inflation is a collection of scholarly papers that accounts the development of a microeconomic theory of wage and price decisions and commitments The book presents some features of the modern inflationary process and makes sense of some still accepted elements in the postclassical macroeconomics of Keynes and Phillips The papers in this volume are grouped into seven sections Part I describes disequilibrium models of employment Part II gives closer scrutiny to the idea of the natural rate of unemployment Part III studies the welfare economics of inflation in an equilibrium context The fourth part deals with inflation planning The papers in Part V discuss hypotheses about the causes of the rise in the rate of inflation in two historical episodes the American inflation between 1955 1957 and 1972 1974 Part VI addresses some questions in the theory of economic stabilization by monetary and fiscal policy The final section of this volume attempts to apply to matters of stochastic social choice stabilization policy being one instance of such a choice the conception of justice advanced by Rawls The compendium will be of value to economists and economic policy makers

**Mathematical Modelling** Murray S. Klamkin, 1987-01-01 Mathematics of Computing Miscellaneous

Asymptotic Theory for Econometricians Halbert White, 2014-06-28 This book is intended to provide a somewhat more comprehensive and unified treatment of large sample theory than has been available previously and to relate the fundamental tools of asymptotic theory directly to many of the estimators of interest to econometricians In addition because economic data are generated in a variety of different contexts time series cross sections time series cross sections we pay particular attention to the similarities and differences in the techniques appropriate to each

of these contexts      **Chaotic Dynamics** Alfredo Medio, Giampaolo Gallo, 1992 The modelling of economic models by means of dynamic systems      *Monetary Macrodynamics* Toichiro Asada, Carl Chiarella, Peter Flaschel, Reiner Franke, 2012-11-12 This book investigates the interaction of effective goods demand with the wage price spiral and the impact of monetary policy on financial and the real markets from a Keynesian perspective Endogenous business fluctuations are studied in the context of long run distributive cycles in an advanced rigorously formulated and quantitative setup The material is developed by way of self contained chapters on three levels of generality an advanced textbook level a research oriented applied level and on a third level that shows how the interaction of real with financial markets has to be modelled from a truly integrative Keynesian perspective Monetary Macrodynamics shows that the balanced growth path of a capitalist economy is unlikely to be attracting and that the cumulative forces that surround it are controlled in the large by changes in the behavioural factors that drive the wage price spiral and the financial markets Such behavioural changes can in fact be observed in actual economies in the interaction of demand driven business fluctuations with supply driven wage and price dynamics as they originate from the conflict over income distribution between capital and labour The book is a detailed critique of US mainstream macroeconomics and uses rigorous dynamic macro models of a descriptive and applicable nature It will be of particular relevance to postgraduate students and researchers interested in disequilibrium processes real wage feedback channels financial markets and portfolio choice financial accelerator mechanisms and monetary policy      **Methodology of Economics and Other Social Sciences** Fritz Machlup, 2014-05-10 Methodology of Economics and Other Social Sciences covers the problems in the methodological aspects of economics and other social science disciplines This book is organized into seven parts encompassing 26 chapters The first parts review the nature and significance of methodology of economics along with the models and theories in the field The succeeding parts deal with the verification problems operational concepts and interpretation of reality in economics Other parts explore the methodological aspects of other social sciences The last parts discuss some aspects and applications of economic methodologies This book will be of value to economists social scientists and researchers      **General Equilibrium** W. D. A. Bryant, 2010 General Equilibrium Theory studies the properties and operation of free market economies The field is a response to a series of questions originally outlined by Leon Walras about the operation of markets and posed by Frank Hahn in the following way OCyDoes the pursuit of private interest through a system of interconnected deregulated markets lead not to chaos but to coherence OCo and if so how is that achieved OCO This is always an apt question but particularly so given the OCyGlobal Financial CrisisOCO that emerged from the operation of market economies in the Americas and Europe in mid to late 2008 The answer that General Equilibrium Theory provides to the Walras Hahn question is that under certain conditions coherence is possible while under certain other conditions chaos in various forms is likely to prevail The conditionality of either outcome is not always well understood OCo neither by proponents of or antagonists to the OCyfree market positionOCO Consequently this book attempts to show

something of what General Equilibrium Theory has to say about the wisdom or otherwise of always relying on OCymarket forcesOCO to manage complex socio economic systems Sample Chapter s Chapter 1 General Equilibrium Theory An Overview 138 KB Contents General Equilibrium Theory An Overview Existence of Equilibrium Sufficient Conditions Existence of Equilibrium Necessary Conditions Equilibrium and Irreducibility Some Empirical Evidence Existence of Equilibrium Under Alternative Income Conditions Existence of Walrasian Equilibrium in Some NonOCoArrow Debreu Environments Uniqueness of Equilibrium Stability of Equilibrium Optimality of Equilibrium Comparative Statics of Equilibrium States Empirical Evidence on General Equilibrium General Equilibrium Theory in Retrospect Readership Advanced undergraduates and graduate students in economics economists interested in economic theory

**Noncooperative Approaches to the Theory of Perfect Competition** Andreu Mas-Colell,2014-05-10 Economic Theory Econometrics and Mathematical Economics A Series of Monographs and Textbooks Noncooperative Approaches to the Theory of Perfect Competition focuses on the application of noncooperative approaches to the theory of perfect competition including Cournot game no surplus condition and Nash equilibria The selection first elaborates on collusive behavior in noncooperative epsilon equilibria of oligopolies with long but finite lives and noncooperative price taking in large dynamic markets Discussions focus on noncooperative equilibria which support the monopoly allocation alternative definition of perfect epsilon equilibrium one period Cournot game fixed demand case and replication case The book takes a look at noncooperative price taking in large dynamic markets no surplus condition as a characterization of perfectly competitive equilibrium perfect competition profit criterion and the organization of economic activity Topics include profits to individually improving welfare structure of firms competitive allocations as no surplus allocations profits as rents Walrasian and perfectly competitive equilibrium and no surplus and core equivalence as alternative characterizations of perfectly competitive equilibrium The manuscript ponders on Nash equilibria of market games and efficiency properties of strategic market games as well as commodities agents assignments strategic markets games proper and full Cournot Nash equilibria and finiteness and inefficiency The selection is a valuable source of data for researchers interested in noncooperative approaches to the theory of perfect competition

*Theory of Technical Change and Economic Invariance* Ryuzo Sato,2014-05-10 Theory of Technical Change and Economic Invariance Application of Lie Groups presents the economic invariance problems observable behavior under general transformations such as taste change or technical change This book covers a variety of topics in economic theory ranging from the analysis of production functions to the general recoverability problem of optimal dynamic behavior Organized into nine chapters this book begins with an overview of the theory of observable behavior by analyzing the invariant relationships among economic variables This text then examines the Lie group theory which provides one of the most efficient methods of studying invariance properties Other chapters consider the analysis of exogenous technical change a process partly due to dynamic market forces of supply and demand This book discusses as well the topics closely related to parametric changes under Lie groups and related

transformations The final chapter deals with mathematical foundations of the theory of observable market behavior This book is a valuable resource for economists

**Analysis of Economic Time Series** Marc Nerlove, David M. Grether, José L. Carvalho, 2014-05-10 Analysis of Economic Time Series A Synthesis integrates several topics in economic time series analysis including the formulation and estimation of distributed lag models of dynamic economic behavior the application of spectral analysis in the study of the behavior of economic time series and unobserved components models for economic time series and the closely related problem of seasonal adjustment Comprised of 14 chapters this volume begins with a historical background on the use of unobserved components in the analysis of economic time series followed by an Introduction to the theory of stationary time series Subsequent chapters focus on the spectral representation and its estimation formulation of distributed lag models elements of the theory of prediction and extraction and formulation of unobserved components models and canonical forms Seasonal adjustment techniques and multivariate mixed moving average autoregressive time series models are also considered Finally a time series model of the U S cattle industry is presented This monograph will be of value to mathematicians economists and those interested in economic theory econometrics and mathematical economics

*Environmental Economics* Gianna Boero, Aubrey Silberston, 2015-12-31 Useful reading for green policy makers and CEOs who may discover that they can have their profits and their environment too Business Today Many questions related to environmental economics and policy are still open including the definition of goals the choice of instruments the impacts of environmental policies and the levels at which different environmental problems should be addressed The papers collected in the book are intended to stimulate further discussion on some of these issues and to bring together studies in specific areas of environmental policy and from all around Europe Following the introduction by the editors the papers fall into four main areas the evaluation of environmental damages and costs the relationship between international trade and the environment the analysis of incentive systems and the problem of sustainable development



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