

# mathematical methods and models in economic dynamics

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north-holland

# Mathematical Methods And Models In Economic Dynamics

**Galimkair Mutanov**



## **Mathematical Methods And Models In Economic Dynamics:**

**Mathematical Methods and Models in Economic Dynamics** Giancarlo Gandolfo, 1971      **Mathematical methods and models in economic dynamics**, 1971      *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

**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      **Economic Dynamics, Methods and Models** Giancarlo Gandolfo, 1980      [Mathematical Methods and Models for Economists](#) Angel de la Fuente, Ángel de la Fuente, 2000-01-28 A textbook for a first year PhD course in mathematics for economists and a reference for graduate students in economics      [Some Quantitative Methods and Models in Economic Theory](#) Alexander V. Prasolov, 2016 This book takes an intermediate place between monographs and textbooks on the one hand it contains known yet unusually portrayed facts and on the other hand the author brings his own results corresponding to the field of research It is already obvious from the title that while reading the book attention and concentration are required as it is always necessary when studying books with mathematical content Mathematical models and methods in the economic theory are very various They are as follows econometrics the game theory operation research nonlinear and chaotic dynamics and many other aspects as well The book will be interesting only to those who are already familiar with corresponding tasks as well as to students at all levels specializing in economic dynamics in decision making methods in forecasting effects of management and in the analysis of interaction of economic agents In terms of the most interesting and

new models of economic dynamics the authors emphasize multidimensional nonlinear systems of the differential equations of Lotka Volterra type These models have been constructed and analyzed and scopes of their application and various methods of coefficients identification have been offered for them The analysis of the competition between various economic agents i e branches of economy rival companies and sellers in the market has been made Another fact unusual to similar monographs is the inclusion of the theory of differential equations with the retarded argument In economic theory there are numerous examples of models being used with discrete time they also have been given attention here and with time lags concentrated or distributed Such an approach gives more adequate models without lags but in the differential equations with continuous time the introduction of delay complicates systems while the growth of delay the qualitative behavior of trajectories is changed Additionally there appear fluctuations such as stability being changed by instability etc As the author has belonged to the St Petersburg Mathematical School for more than thirty five years the list of references contains many Russian names which may be unknown to Western readers However the list also includes world classical scientists who devoted their works to mathematical methods in economics In this monograph an attentive reader will find numerous points for further analysis which can become a subject of publications or theses In some cases the text is conducted in a polemic manner that is the author is always open for discussions and does not consider his work to be the ultimate truth

*Mathematical Methods and Models in Economic Dynamics* Giancarlo Gandolfo, 1971

**New Mathematical Advances in Economic Dynamics** David F. Batten, Paul F. Lesse, 2018-02-28 Originally published in 1985 Mathematical methods and models to facilitate the understanding of the processes of economic dynamics and prediction were refined considerably over the period before this book was written The field had grown and many of the techniques involved became extremely complicated Areas of particular interest include optimal control non linear models game theoretic approaches demand analysis and time series forecasting This book presents a critical appraisal of developments and identifies potentially productive new directions for research It synthesises work from mathematics statistics and economics and includes a thorough analysis of the relationship between system understanding and predictability

*Mathematical Methods and Models for Economists* Angel de la Fuente, 2000-01-28 This book is intended as a textbook for a first year PhD course in mathematics for economists and as a reference for graduate students in economics It provides a self contained rigorous treatment of most of the concepts and techniques required to follow the standard first year theory sequence in micro and macroeconomics The topics covered include an introduction to analysis in metric spaces differential calculus comparative statics convexity static optimization dynamical systems and dynamic optimization The book includes a large number of applications to standard economic models and over two hundred fully worked out problems

*Mathematical Methods in Dynamic Economics* A. Simonovits, 2000-06-05 This book contains a concise description of important mathematical methods of dynamics and suitable economic models It covers discrete as well as continuous time systems linear and nonlinear models Mixing traditional and modern materials the

study covers dynamics with and without optimization naive and rational expectations respectively In addition to standard models of growth and cycles the book also contains original studies on control of a multisector economy and expectations driven multicohort economy Numerous examples problems with solutions and figures complete the book **Business Cycle Dynamics** Iryna Sushko,2006-08-13 Business cycle theory has been one of the fastest growing fields in modern nonlinear economic dynamics This book presents new mathematical methods for global analysis which have not previously been available in this easily accessible form In addition it contains a presentation of full analyses of several models left open in the 1950s when the tools then available did not permit more systematic analysis Economic Dynamics Ronald Shone,2002-11-28 This is the substantially revised and restructured second edition of Ron Shone s successful advanced textbook Economic Dynamics The book provides detailed coverage of dynamics and phase diagrams including quantitative and qualitative dynamic systems continuous and discrete dynamics linear and non linear systems and single equation and systems of equations It illustrates dynamic systems using Mathematica Maple V and spreadsheets It provides a thorough introduction to phase diagrams and their economic application and explains the nature of saddle path solutions The second edition contains a new chapter on oligopoly and an extended treatment of stability of discrete dynamic systems and the solving of first order difference equations Detailed routines on the use of Mathematica and Maple are now contained in the body of the text which now includes advice on the use of Excel and additional examples and exercises throughout Supporting website contains solutions manual and learning tools *Mathematical Methods and Models in Economic Planning, Management and Budgeting* Galimkair Mutanov,2014-11-04 This book describes a system of mathematical models and methods that can be used to analyze real economic and managerial decisions and to improve their effectiveness Application areas include management of development and operation budgets assessment and management of economic systems using an energy entropy approach equation of exchange rates and forecasting foreign exchange operations evaluation of innovative projects monitoring of governmental programs risk management of investment processes decisions on the allocation of resources and identification of competitive industrial clusters The proposed methods and models were tested on the example of Kazakhstan s economy but the generated solutions will be useful for applications at other levels and in other countries Regarding your book Mathematical Methods and Models in Economics I am impressed because now it is time when econometrics is becoming more appreciated by economists and by schools that are the hosts or employers of modern economists Your presented results really impressed me John F Nash Jr Princeton University Nobel Memorial Prize in Economic Sciences The book is within my scope of interest because of its novelty and practicality First there is a need for realistic modeling of complex systems both natural and artificial that conclude computer and economic systems There has been an ongoing effort in developing models dealing with complexity and incomplete knowledge Consequently it is clear to recognize the contribution of Mutanov to encapsulate economic modeling with emphasis on budgeting and innovation

Secondly the method proposed by Mutanov has been verified by applying to the case of the Republic of Kazakhstan with her vibrant emerging economy Thirdly Chapter 5 of the book is of particular interest for the computer technology community because it deals with innovation In summary the book of Mutanov should become one of the outstanding recognized pragmatic guides for dealing with innovative systems Andrzej Rucinski University of New Hampshire This book is unique in its theoretical findings and practical applicability The book is an illuminating study based on an applied mathematical model which uses methods such as linear programming and input output analysis Moreover this work demonstrates the author's great insight and academic brilliance in the fields of finance technological innovations and marketing vis vis the market economy From both theoretical and practical standpoint this work is indeed a great achievement Yeon Cheon Oh President of Seoul National University *Financial Economics, Risk And Information (2nd Edition)* Marcelo Bianconi, 2011-11-29

*Financial Economics Risk and Information* presents the fundamentals of finance in static and dynamic frameworks with focus on risk and information The objective of this book is to introduce undergraduate and first year graduate students to the methods and solutions of the main problems in finance theory relating to the economics of uncertainty and information The main goal of the second edition is to make the materials more accessible to a wider audience of students and finance professionals The focus is on developing a core body of theory that will provide the student with a solid intellectual foundation for more advanced topics and methods The new edition has streamlined chapters and topics with new sections on portfolio choice under alternative information structures The starting point is the traditional mean variance approach followed by portfolio choice from first principles The topics are extended to alternative market structures alternative contractual arrangements and agency dynamic stochastic general equilibrium in discrete and continuous time attitudes towards risk and towards inter temporal substitution in discrete and continuous time and option pricing In general the book presents a balanced introduction to the use of stochastic methods in discrete and continuous time in the field of financial economics *Quantitative Methods for Business and Economics* Adil H. Mouhammed, 2015-04-08 This book provides a brief yet rigorous introduction to various quantitative methods used in economic decision making It has no prerequisites other than high school algebra The book begins with matrix algebra and calculus which are then used in the book's core modes Once the reader grasps matrix theory and calculus the quantitative models can be understood easily and for each model there are many solved examples related to business and economic applications *Mathematical Theory of Economic Dynamics and Equilibria* V.L. Makarov, A.M. Rubinov, 2012-12-06 This book is devoted to the mathematical analysis of models of economic dynamics and equilibria These models form an important part of mathematical economics Models of economic dynamics describe the motion of an economy through time The basic concept in the study of these models is that of a trajectory i.e. a sequence of elements of the phase space that describe admissible possible development of the economy From all trajectories we select those that are desirable i.e. optimal in terms of a certain criterion The apparatus of point set maps is

the appropriate tool for the analysis of these models The topological aspects of these maps particularly the Kakutani fixed point theorem are used to study equilibrium models as well as  $n$  person games To study dynamic models we use a special class of maps which in this book are called superlinear maps The theory of superlinear point set maps is obviously of interest in its own right This theory is described in the first chapter Chapters 2 4 are devoted to models of economic dynamics and present a detailed study of the properties of optimal trajectories These properties are described in terms of theorems on characteristics on the existence of dual prices and turnpike theorems theorems on asymptotic trajectories In Chapter 5 we state and study a model of economic equilibrium The basic idea is to establish a theorem about the existence of an equilibrium state for the Arrow Debreu model and a certain generalization of it

**Mathematical Models in Economics - Volume II** Wei-Bin Zhang, 2010-06-10 Mathematical Models in Economics is a component of Encyclopedia of Mathematical Sciences in which is part of the global Encyclopedia of Life Support Systems EOLSS an integrated compendium of twenty one Encyclopedias This theme is organized into several different topics and introduces the applications of mathematics to economics Mathematical economics has experienced rapid growth generating many new academic fields associated with the development of mathematical theory and computer Mathematics is the backbone of modern economics It plays a basic role in creating ideas constructing new theories and empirically testing ideas and theories Mathematics is now an integral part of economics The main advances in modern economics are characterized by applying mathematics to various economic problems Many of today's profound insights into economic problems could hardly be obtained without the help of mathematics The concepts of equilibrium versus non equilibrium stability versus instability and steady states versus chaos in the contemporary literature are difficult to explain without mathematics The theme discusses modern versions of some classical economic theories taking account of balancing between significance of economic issues and mathematical techniques These two volumes are aimed at the following five major target audiences University and College students Educators Professional practitioners Research personnel and Policy analysts managers and decision makers and NGOs

**Mathematical Models of Economic Dynamics with Discrete Innovations** Alexander J. Zaslavski, 2006 This monograph is devoted to an interesting class of dynamical systems arising in economic dynamics Dynamical systems theory has been a rapidly growing area of research which has various applications to physics engineering biology and economics In this theory one of the goals is to study the asymptotic behaviour of the trajectories of a dynamical system A discrete time dynamical system is described by a space of states and a sequence of transition operators which can be set valued Two types of dynamical systems are considered in the literature autonomous with a single transition operator which does not depend on time and non autonomous with transition operators depending on time In the monograph the authors discuss a number of results concerning this model which were obtained by the author in the last fifteen years They study the existence of trajectories on which consumption tends to infinity discuss the existence and structure of optimal solutions and analyse

allocations of labour resources The authors introduce an optimality criterion for the trajectories of the model establish the existence of optimal trajectories and examine their structure They consider a multi product extension of the Makarov model and its extension with expenditures required for reallocation of labour resources      State Models of Dynamic Systems N.H. McClamroch, 2012-12-06 The purpose of this book is to expose undergraduate students to the use of applied mathematics and physical argument as a basis for developing an understanding of the response characteristics from a systems viewpoint of a broad class of dynamic physical processes This book was developed for use in the course ECE 355 Dynamic Systems and Modeling in the Department of Electrical and Computer Engineering at the University of Michigan Ann Arbor The course ECE 355 has been elected primarily by junior and senior level students in computer engineering or in electrical engineering Occasionally a student from outside these two programs elected the course Thus the book is written with this class of students in mind It is assumed that the reader has previous background in mathematics through calculus differential equations and Laplace transforms in elementary physics and in elementary mechanics and circuits Although these prerequisites indicate the orientation of the material the book should be accessible and of interest to students with a much wider spectrum of experience in applied mathematical topics The subject matter of the book can be considered to form an introduction to the theory of mathematical systems presented from a modern as opposed to a classical point of view A number of physical processes are examined where the underlying systems concepts can be clearly seen and grasped The organization of the book around case study examples has evolved as a consequence of student suggestions



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