

# mathematical methods and models in economic dynamics

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# Mathematical Methods In Dynamic Economics

**David F. Batten, Paul F. Lesse**



## **Mathematical Methods In Dynamic Economics:**

**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     Economic Dynamics: Methods and Models G Gandolfo, 1983-09-01 *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     **Foundations of Dynamic Economic Analysis** Michael R. Caputo, 2005-01-17 *Foundations of Dynamic Economic Analysis* presents a modern and thorough exposition of the fundamental mathematical formalism used to study optimal control theory i e continuous time dynamic economic processes and to interpret dynamic economic behavior The style of presentation with its continual emphasis on the economic interpretation of mathematics and models distinguishes it from several other excellent texts on the subject This approach is aided dramatically by introducing the dynamic envelope theorem and the method of comparative dynamics early in the exposition Accordingly motivated and economically revealing proofs of the transversality conditions come about by use of the dynamic envelope theorem Furthermore such sequencing of the material naturally leads to the development of the primal dual method of comparative dynamics and dynamic duality theory two modern approaches used to tease out the empirical content of optimal control models The stylistic approach ultimately draws attention to the empirical richness of optimal control theory a feature missing in virtually all other textbooks of this type     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

### **Differential Equations, Stability, and Chaos in**

**Dynamic Economics** William A. Brock,A. G. Malliaris,1989 This is the first economics work of its kind offering the economist the opportunity to acquire new and important analytical tools It introduces the reader to three advanced mathematical methods by presenting both their theoretical bases and their applications to a wide range of economic models The mathematical methods presented are ordinary differential equations stability techniques and chaotic dynamics Topics such as existence continuation of solutions uniqueness dependence on initial data and parameters linear systems stability of linear systems two dimensional phase analysis local and global stability the stability manifold stability of optimal control and empirical tests for chaotic dynamics are covered and their use in economic theory is illustrated in numerous applications These applications include microeconomic dynamics investment theory macroeconomic policies capital theory business cycles financial economics and many others All chapters conclude with two sections on miscellaneous applications and exercises and further remarks and references In total the reader will find a valuable guide to over 500 selected references that use differential equations stability analysis and chaotic dynamics Graduate students in economics with a special interest in economic theory economic researchers and applied mathematicians will all benefit from this volume

### **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

### **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

### **Mathematical Methods and Models in Economic Dynamics** Giancarlo

Gandolfo,1971 **Mathematical Methods of Game and Economic Theory** Jean-Pierre Aubin,2007-01-01 Mathematical economics and game theory approached with the fundamental mathematical toolbox of nonlinear functional analysis are the

central themes of this text Both optimization and equilibrium theories are covered in full detail The book s central application is the fundamental economic problem of allocating scarce resources among competing agents which leads to considerations of the interrelated applications in game theory and the theory of optimization Mathematicians mathematical economists and operations research specialists will find that it provides a solid foundation in nonlinear functional analysis This text begins by developing linear and convex analysis in the context of optimization theory The treatment includes results on the existence and stability of solutions to optimization problems as well as an introduction to duality theory The second part explores a number of topics in game theory and mathematical economics including two person games which provide the framework to study theorems of nonlinear analysis The text concludes with an introduction to non linear analysis and optimal control theory including an array of fixed point and subjectivity theorems that offer powerful tools in proving existence theorems

*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

Methods of Dynamic Economics J. R. Hicks, 1987-10-08 Capital and Growth was published in 1965 and rapidly established itself as a landmark in economic theory In this volume Sir John takes his earlier work and examines it critically for its present day value The result is a substantially reworked book based on the first and best part of his 1965 publication The theme now more clearly identified is a comparative study of the economics of change and brings in many of Hicks s subsequent developments and refinements in particular a neo Austrian theory of capital which he developed in Capital and Time 1973 A new chapter on Keynes s methods has been added The sum is a more complete classification of the family of models appropriate for analysing dynamic economics

Dynamic Economic Theory Michio Morishima, 1996-10-17 This book develops multi sector general equilibrium theory in the tradition of Hicks s Value and Capital

**Dynamic Economic Systems** John M. Blatt, 2019-07-29 The bicentenary of The Wealth of Nations has passed and so has the centenary of the neoclassical revolution in economics Yet the present state of dynamic economic theory leaves very much to be desired and appears to show little sign of significant improvement in the near future Structured into 5 main topics the main purpose of Dynamic Economic Systems is to present arguments for this contention and to start developing the tools which are needed to make progress in understanding truly dynamic economic systems First published in 2000

*New Quantitative Techniques for Economic Analysis* Giorgio P. Szegő, 2014-05-10 Economic Theory Econometrics and Mathematical Economics

New Quantitative Techniques for Economic Analysis provides a critical appraisal of the results the limits and the developments of well established quantitative techniques This book presents a detailed analysis of the quantitative techniques for economic analysis Organized into four parts encompassing 16 chapters this book begins with an overview of the general questions concerning models and model making This text then provides the main results and various interesting economic applications of some quantitative techniques that have not been widely used in the economic field Other chapters consider the principle of optimality in dynamic programming wherein the infinite sequence of consumption saving decisions can be reduced to one decision This book discusses as well the methods for online control and management of large scale systems The final chapter deals with special problems This book is a valuable resource for economists social scientists epistemologists economic historians and research workers

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

*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

Using the Financial and Business Literature Thomas Slavens,2004-03-11 Specifically written to assist in the

quick retrieval of commercial industrial manufacturing communicative automotive and agricultural research this reference conveniently assembles the most recent print and electronic research tools compact discs and online databases for swift collection and organization of information in the business marketing and financial communities

**Quantitative Economic Policies and Interactive Planning** Andrew J. Hughes Hallett, Hedley J. B. Rees, 1983-01-20 *Economic Dynamics and Information* Jaroslav Zajac, 2007-08-01 This book analyzes the existence of equilibria in economies having a measured space of agents and a continuum of agents and commodities Excessive homogeneity with respect to agent productivity leads to instability and non uniqueness of a given stationary state and the indeterminacy of the corresponding stationary state equilibrium Sufficient heterogeneity leads to global saddle path stability uniqueness of a given stationary state and the global uniqueness of the corresponding equilibrium

**Dynamic Economic Analysis** Gerhard Sorger, 2015-02-12 Focusing on deterministic models in discrete time this concise yet rigorous textbook provides a clear and systematic introduction to the theory and application of dynamic economic models It guides students through the most popular model structures and solution concepts from the simplest dynamic economic models through to complex problems of optimal policy design in dynamic general equilibrium frameworks Chapters feature theorems and practical hints and seventy five worked examples highlight the various methods and results that can be applied in dynamic economic models Notation and formulation is uniform throughout so students can easily discern the similarities and differences between various model classes Chapters include more than sixty exercises for students to self test their analytical skills and password protected solutions are available for instructors on the companion website Assuming no prior knowledge of dynamic economic analysis or dynamic optimization this textbook is ideal for advanced students in economics

## Unveiling the Magic of Words: A Report on "**Mathematical Methods In Dynamic Economics**"

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