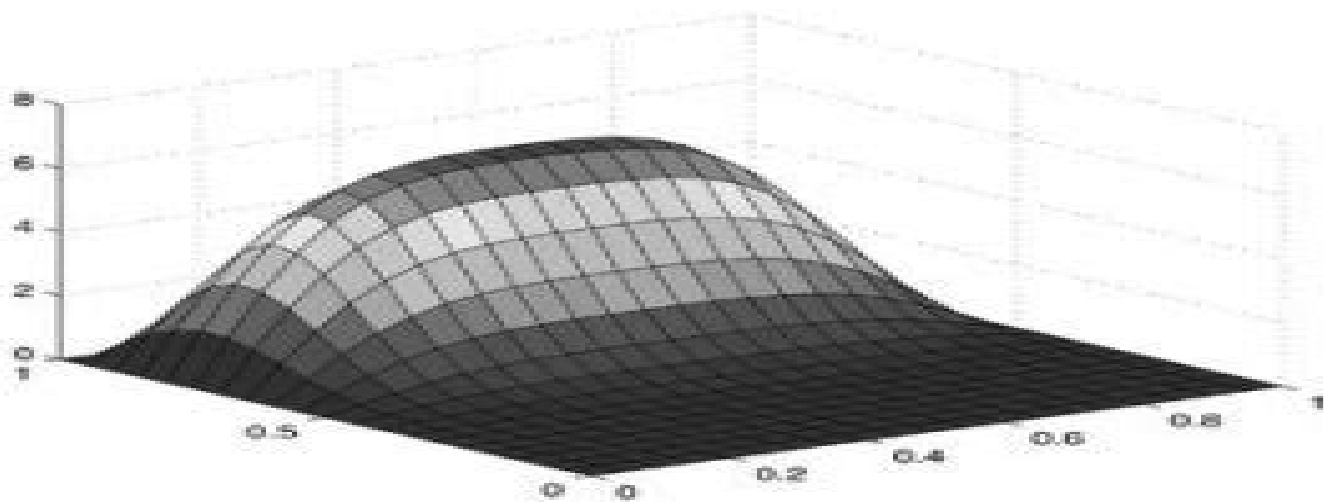


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Applications of Numerical Methods in Economics and Finance Sule Alan, 2001 **Economic Growth** Alfonso Novales, Esther

Fernández, Jesús Ruiz, 2014-07-02 This is a book on deterministic and stochastic Growth Theory and the computational methods needed to produce numerical solutions Exogenous and endogenous growth models are thoroughly reviewed Special attention is paid to the use of these models for fiscal and monetary policy analysis Modern Business Cycle Theory the New Keynesian Macroeconomics the class of Dynamic Stochastic General Equilibrium models can be all considered as special cases of models of economic growth and they can be analyzed by the theoretical and numerical procedures provided in the textbook Analytical discussions are presented in full detail The book is self contained and it is designed so that the student advances in the theoretical and the computational issues in parallel EXCEL and Matlab files are provided on an accompanying website see Preface to the Second Edition to illustrate theoretical results as well as to simulate the effects of economic policy interventions The structure of these program files is described in Numerical exercise type of sections where the output of these programs is also interpreted The second edition corrects a few typographical errors and improves some notation

Numerical Methods and Optimization in Finance Manfred Gilli, Dietmar Maringer, Enrico Schumann, 2019-08-16 Computationally intensive tools play an increasingly important role in financial decisions Many financial problems ranging from asset allocation to risk management and from option pricing to model calibration can be efficiently handled using modern computational techniques Numerical Methods and Optimization in Finance presents such

computational techniques with an emphasis on simulation and optimization particularly so called heuristics This book treats quantitative analysis as an essentially computational discipline in which applications are put into software form and tested empirically This revised edition includes two new chapters a self contained tutorial on implementing and using heuristics and an explanation of software used for testing portfolio selection models Postgraduate students researchers in programs on quantitative and computational finance and practitioners in banks and other financial companies can benefit from this second edition of Numerical Methods and Optimization in Finance Methods for Applied Macroeconomic Research Fabio Canova,2011-09-19 The last twenty years have witnessed tremendous advances in the mathematical statistical and computational tools available to applied macroeconomists This rapidly evolving field has redefined how researchers test models and validate theories Yet until now there has been no textbook that unites the latest methods and bridges the divide between theoretical and applied work Fabio Canova brings together dynamic equilibrium theory data analysis and advanced econometric and computational methods to provide the first comprehensive set of techniques for use by academic economists as well as professional macroeconomists in banking and finance industry and government This graduate level textbook is for readers knowledgeable in modern macroeconomic theory econometrics and computational programming using RATS MATLAB or Gauss Inevitably a modern treatment of such a complex topic requires a quantitative perspective a solid dynamic theory background and the development of empirical and numerical methods which is where Canova's book differs from typical graduate textbooks in macroeconomics and econometrics Rather than list a series of estimators and their properties Canova starts from a class of DSGE models finds an approximate linear representation for the decision rules and describes methods needed to estimate their parameters examining their fit to the data The book is complete with numerous examples and exercises Today's economic analysts need a strong foundation in both theory and application Methods for Applied Macroeconomic Research offers the essential tools for the next generation of macroeconomists **Economic Dynamics with Memory** Vasily E. Tarasov,Valentina V. Tarasova,2021-01-18 This book presents the applications of fractional calculus fractional operators of non integer orders and fractional differential equations in describing economic dynamics with long memory Generalizations of basic economic concepts notions and methods for the economic processes with memory are suggested New micro and macroeconomic models with continuous time are proposed to describe the fractional economic dynamics with long memory as well **Economic Dynamics in Discrete Time, second edition** Jianjun Miao,2020-03-03 A unified and comprehensive introduction to the analytical and numerical tools for solving dynamic economic problems substantially revised for the second edition This book offers a unified comprehensive and up to date treatment of analytical and numerical tools for solving dynamic economic problems The focus is on introducing recursive methods an important part of every economist's set of tools and readers will learn to apply recursive methods to a variety of dynamic economic problems The book is notable for its combination of theoretical foundations and numerical methods Each topic is first described in

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Introduction to Quantitative Macroeconomics Using Julia Petre Caraiani, 2018-08-29 Introduction to Quantitative Macroeconomics Using Julia From Basic to State of the Art Computational Techniques facilitates access to fundamental techniques in computational and quantitative macroeconomics It focuses on the recent and very promising software Julia which offers a MATLAB like language at speeds comparable to C Fortran also discussing modeling challenges that make quantitative macroeconomics dynamic a key feature that few books on the topic include for macroeconomists who need the basic tools to build solve and simulate macroeconomic models This book neatly fills the gap between intermediate macroeconomic books and modern DSGE models used in research Combines an introduction to Julia with the specific needs of macroeconomic students who are interested in DSGE models and PhD students and researchers interested in building DSGE models Teaches fundamental techniques in quantitative macroeconomics by introducing theoretical elements of key macroeconomic models and their potential algorithmic implementations Exposes researchers working in macroeconomics to state of the art computational techniques for simulating and solving DSGE models

Frontiers in Applied General Equilibrium Modeling Timothy J. Kehoe, T. N. Srinivasan, John Whalley, 2005-01-17 This 2005 volume brings together twelve papers by many of the most prominent applied general equilibrium modelers honoring Herbert Scarf the father of equilibrium computation in economics It deals with developments in applied general equilibrium a field which has broadened greatly since the 1980s The contributors discuss some traditional as well as some modern topics in the field including non convexities in economy wide models tax policy developmental modeling and energy modeling The book also covers a range of distinct approaches conceptual issues and computational algorithms such as calibration and areas of application such as macroeconomics of real business cycles and finance An introductory chapter written by the editors maps out issues and scenarios for the future evolution of applied general equilibrium

Economic and Financial Modeling with Mathematica® Hal R. Varian, 2013-11-21 Mathematica is a computer program software for doing symbolic numeric and graphical analysis of

mathematical problems In the hands of economists financial analysts and other professionals in econometrics and the quantitative sector of economic and financial modeling it can be an invaluable tool for modeling and simulation on a large number of issues and problems besides easily grinding out numbers doing statistical estimations and rendering graphical plots and visuals Mathematica enables these individuals to do all of this in a unified environment This book s main use is that of an applications handbook Modeling in Economics and Finance with Mathematica is a compilation of contributed papers prepared by experienced hands on users of the Mathematica program They come from a broad spectrum of Mathematica devotees in the econometric and financial investment community on both the professional and academic fronts Each paper provides a set of tools and examples of Mathematica in action These tools will also be made accessible to users via a DOS based floppy disk which will contain Mathematica Notebooks and Packages and be packaged with the book

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Economic Dynamics in Discrete Time Jianjun Miao,2014-09-12 A unified comprehensive and up to date introduction to the analytical and numerical tools for solving dynamic economic problems This book offers a unified comprehensive and up to date treatment of analytical and numerical tools for solving dynamic economic problems The focus is on introducing recursive methods an important part of every economist s set of tools and readers will learn to apply recursive methods to a variety of dynamic economic problems The book is notable for its combination of theoretical foundations and numerical methods Each topic is first described in theoretical terms with explicit definitions and rigorous proofs numerical methods and computer codes to implement these methods follow Drawing on the latest research the book covers such cutting edge topics as asset price bubbles recursive utility robust control policy analysis in dynamic New Keynesian models with the zero lower bound on interest rates and Bayesian estimation of dynamic stochastic general equilibrium DSGE models The book first introduces the theory of dynamical systems and numerical methods for solving dynamical systems and then discusses the theory and applications of dynamic optimization The book goes on to treat equilibrium analysis covering a variety of core macroeconomic models and such additional topics as recursive utility increasingly used in finance and macroeconomics dynamic games and recursive contracts The book introduces Dynare a widely used software platform for handling a range of economic models readers will learn to use Dynare for numerically solving DSGE models and performing Bayesian estimation of DSGE models Mathematical appendixes present all the necessary mathematical concepts and results Matlab codes used to solve examples are indexed and downloadable from the book s website A solutions manual for students is available for sale from the MIT Press a downloadable instructor s manual is available to qualified instructors

Applied Computational Economics and Finance Mario J. Miranda,Paul L. Fackler,2004-08-20 This book presents a variety of computational methods used to solve dynamic problems in economics and finance It emphasizes practical numerical methods rather than

mathematical proofs and focuses on techniques that apply directly to economic analyses The examples are drawn from a wide range of subspecialties of economics and finance with particular emphasis on problems in agricultural and resource economics macroeconomics and finance The book also provides an extensive Web site library of computer utilities and demonstration programs The book is divided into two parts The first part develops basic numerical methods including linear and nonlinear equation methods complementarity methods finite dimensional optimization numerical integration and differentiation and function approximation The second part presents methods for solving dynamic stochastic models in economics and finance including dynamic programming rational expectations and arbitrage pricing models in discrete and continuous time The book uses MATLAB to illustrate the algorithms and includes a utilities toolbox to help readers develop their own computational economics applications

The New Palgrave Dictionary of Economics, 2016-05-18 The award winning The New Palgrave Dictionary of Economics 2nd edition is now available as a dynamic online resource Consisting of over 1 900 articles written by leading figures in the field including Nobel prize winners this is the definitive scholarly reference work for a new generation of economists Regularly updated This product is a subscription based product

Optimization in Economics and Finance Bruce D. Craven, Sardar M. N. Islam, 2005-10-24 Many optimization questions arise in economics and finance an important example of this is the society's choice of the optimum state of the economy the social choice problem Optimization in Economics and Finance extends and improves the usual optimization techniques in a form that may be adopted for modeling social choice problems Problems discussed include when is an optimum reached when is it unique relaxation of the conventional convex or concave assumptions on an economic model associated mathematical concepts such as invex and quasimax multiobjective optimal control models and related computational methods and programs These techniques are applied to economic growth models including small stochastic perturbations finance and financial investment models and the interaction between financial and production variables modeling sustainability over long time horizons boundary transversality conditions and models with several conflicting objectives Although the applications are general and illustrative the models in this book provide examples of possible models for a society's social choice for an allocation that maximizes welfare and utilization of resources As well as using existing computer programs for optimization of models a new computer program named SCOM is presented in this book for computing social choice models by optimal control

Heterogenous Agents, Interactions and Economic Performance Robin Cowan, Nicolas Jonard, 2012-12-06 In traditional economics models of perfect competition agent's interactions are all mediated through the market Interactions are anonymous global and indirect This is a powerful model but we see many instances in which one and sometimes all of the previous characteristics fail to hold true The type of agent you are or your identity can affect the type of interaction we have and most surely the relationship between micro behaviour and macro phenomena in non trivial ways This book contains a selection of papers presented at the 6th Workshop on Economics with Heterogenous Interacting Agents WEHIA The

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