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Numerical Methods in Finance and Economics
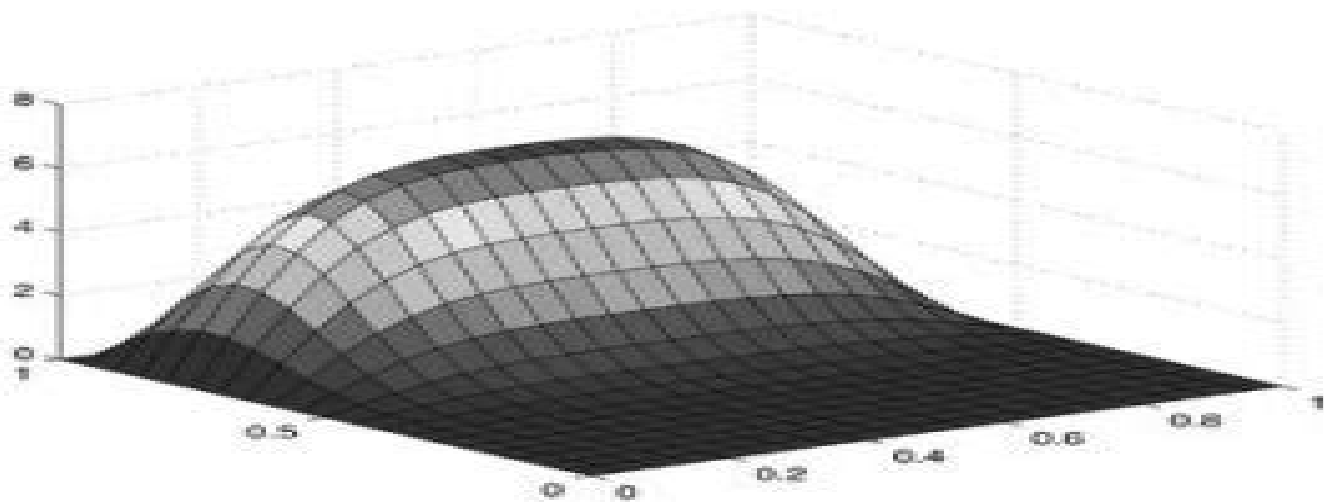
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Second Edition

Numerical Methods In Economics

Seth A. Greenblatt

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Numerical Methods in Economics Kenneth L. Judd,1998-09-28 To harness the full power of computer technology economists need to use a broad range of mathematical techniques In this book Kenneth Judd presents techniques from the numerical analysis and applied mathematics literatures and shows how to use them in economic analyses The book is divided into five parts Part I provides a general introduction Part II presents basics from numerical analysis on R n including linear equations iterative methods optimization nonlinear equations approximation methods numerical integration and differentiation and Monte Carlo methods Part III covers methods for dynamic problems including finite difference methods projection methods and numerical dynamic programming Part IV covers perturbation and asymptotic solution methods Finally Part V covers applications to dynamic equilibrium analysis including solution methods for perfect foresight models and rational expectation models A website contains supplementary material including programs and answers to exercises

Numerical Methods in Economics Kenneth L. Judd,1991 **Special issue Numerical methods in economics and finance** Seth A. Greenblatt,1998 *Numerical Methods in Finance and Economics* Paolo Brandimarte,2013-06-06 A state of the art introduction to the powerful mathematical and statistical tools used in the field of finance The use of mathematical models and numerical techniques is a practice employed by a growing number of applied mathematicians working on applications in finance Reflecting this development Numerical Methods in Finance and Economics A MATLAB Based Introduction Second Edition bridges the gap between financial theory and computational practice while showing readers how to utilize MATLAB the powerful numerical computing environment for financial applications The author provides an essential foundation in finance and numerical analysis in addition to background material for students from both engineering and economics perspectives A wide range of topics is covered including standard numerical analysis methods Monte Carlo methods to simulate systems affected by significant uncertainty and optimization methods to find an optimal set of decisions Among this book s most outstanding features is the integration of MATLAB which helps students and practitioners solve relevant problems in finance such as portfolio management and derivatives pricing This tutorial is useful in connecting theory with practice in the application of classical numerical methods and advanced methods while illustrating underlying algorithmic concepts in concrete terms Newly featured in the Second Edition In depth treatment of Monte Carlo methods with due attention paid to variance reduction strategies New appendix on AMPL in order to better illustrate the optimization models in Chapters 11 and 12 New chapter on binomial and trinomial lattices Additional treatment of partial differential equations with two space dimensions Expanded treatment within the chapter on financial theory to provide a more thorough background for engineers not familiar with finance New coverage of advanced optimization methods and applications later in the text Numerical Methods in Finance and Economics A MATLAB Based Introduction Second Edition presents basic treatments and more specialized literature and it also uses algebraic languages such as AMPL to connect the pencil and

paper statement of an optimization model with its solution by a software library Offering computational practice in both financial engineering and economics fields this book equips practitioners with the necessary techniques to measure and manage risk *Applications of Numerical Methods in Economics and Finance* Sule Alan,2001 Computational Economics Oscar Afonso,Paulo B. Vasconcelos,2015-08-27 Computational Economics A concise introduction is a comprehensive textbook designed to help students move from the traditional and comparative static analysis of economic models to a modern and dynamic computational study The ability to equate an economic problem to formulate it into a mathematical model and to solve it computationally is becoming a crucial and distinctive competence for most economists This vital textbook is organized around static and dynamic models covering both macro and microeconomic topics exploring the numerical techniques required to solve those models A key aim of the book is to enable students to develop the ability to modify the models themselves so that using the MATLAB Octave codes provided on the book and on the website students can demonstrate a complete understanding of computational methods This textbook is innovative easy to read and highly focused providing students of economics with the skills needed to understand the essentials of using numerical methods to solve economic problems It also provides more technical readers with an easy way to cope with economics through modelling and simulation Later in the book more elaborate economic models and advanced numerical methods are introduced which will prove valuable to those in more advanced study This book is ideal for all students of economics mathematics computer science and engineering taking classes on Computational or Numerical Economics **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 **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 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 This second edition has been substantially updated Responding to renewed interest in modeling with multiple equilibria it incorporates new material on this topic throughout It offers an entirely new chapter on deterministic nonlinear systems and provides new material on such topics as linear planar systems chaos bifurcations indeterminacy and sunspot solutions pruning nonlinear solutions the bandit problem rational inattention models bequests self fulfilling prophecies the cyclical behavior of unemployment and vacancies and the long run risk model The exposition of each chapter has been revised and improved and many new figures Matlab codes and exercises have been added A student solutions manual can be purchased separately *Computational Economics* Oscar Afonso,Paulo B. Vasconcelos,2015-08-27 Computational Economics A concise introduction is a comprehensive textbook designed to help students move from the traditional and comparative static analysis of economic models to a modern and dynamic computational study The ability to equate an economic problem to formulate it into a mathematical model and to solve it computationally is becoming a crucial and distinctive competence for most economists This vital textbook is organized around static and dynamic models covering both macro and microeconomic topics exploring the numerical techniques required to solve those models A key aim of the book is to enable students to develop the ability to modify the models themselves so that using the MATLAB Octave codes provided on the book and on the website students can demonstrate a complete understanding of computational methods This textbook is innovative easy to read and highly focused providing students of economics with the skills needed to understand the essentials of using numerical methods to solve economic problems It also provides more technical readers with an easy way to cope with economics through modelling and simulation Later in the book more elaborate economic models and advanced numerical methods are introduced which will prove valuable to those in more advanced study This book is ideal for all students of economics mathematics computer science and engineering taking classes on Computational or Numerical Economics <u>Economic Dynamics with Memory</u> 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** Jianjun Miao,2014-09-12 A unified comprehensive and up

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offers the essential tools for the next generation of macroeconomists   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   *Research in Multidisciplinary Subjects (Volume- 5)* Chief Editor- Biplab Auddya, Editor- Dr. Darshanam Vijaykumar, Advitya Khurana, Dr. S.Amutha, Dr. Kavita Jaidiya, Dr. Jayesh Manjrekar, Dr. L Malleswara Rao, Mr. Sugeet Sethi,2023-09-14   *Optimization in Economics and Finance* Bruce D. Craven,Sardar M. N. Islam,2005 Extends the optimization techniques in a form that may be adopted for modeling social choice problems The models in this book provide possible models for a society s social choice for an allocation that maximizes welfare and utilization of resources A computer program SCOM is presented here for computing social choice models by optimal control   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   **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   **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   *Computational Economic Systems* Manfred Gilli,2013-03-09 The approach to many problems in economic analysis has changed drastically with the development and dissemination of new and more efficient computational techniques Computational Economic Systems Models Methods Econometrics presents a selection of papers illustrating the use of new computational methods and computing techniques to solve economic problems Part I of the volume consists of papers which focus on modelling economic systems presenting computational methods to investigate the evolution of behavior of economic agents techniques to solve complex inventory models on a parallel computer and an original approach for the construction and solution of multicriteria models involving logical conditions Contributions to Part II concern new computational approaches to economic problems We find an application of wavelets to outlier detection New estimation algorithms are presented one concerning seemingly related regression models a second one on nonlinear rational expectation models and a third one dealing with switching GARCH estimation Three contributions contain original approaches for the solution of nonlinear rational expectation models   **Post Walrasian Macroeconomics** David Colander,2006-07-17 Macroeconomics is evolving in an almost dialectic fashion The latest evolution is the development of a new synthesis that combines insights of new classical new Keynesian and real business cycle traditions into a dynamic stochastic general equilibrium DSGE model that serves as a foundation for thinking about macro policy That new synthesis has opened up the door to a new antithesis which is being driven by advances in computing power and analytic techniques This new synthesis is coalescing around developments in complexity theory automated general to specific econometric modeling agent based models and non linear and statistical dynamical models This book thus provides the reader with an introduction to what might be called a Post Walrasian research program that is developing as the antithesis of the Walrasian DSGE synthesis

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