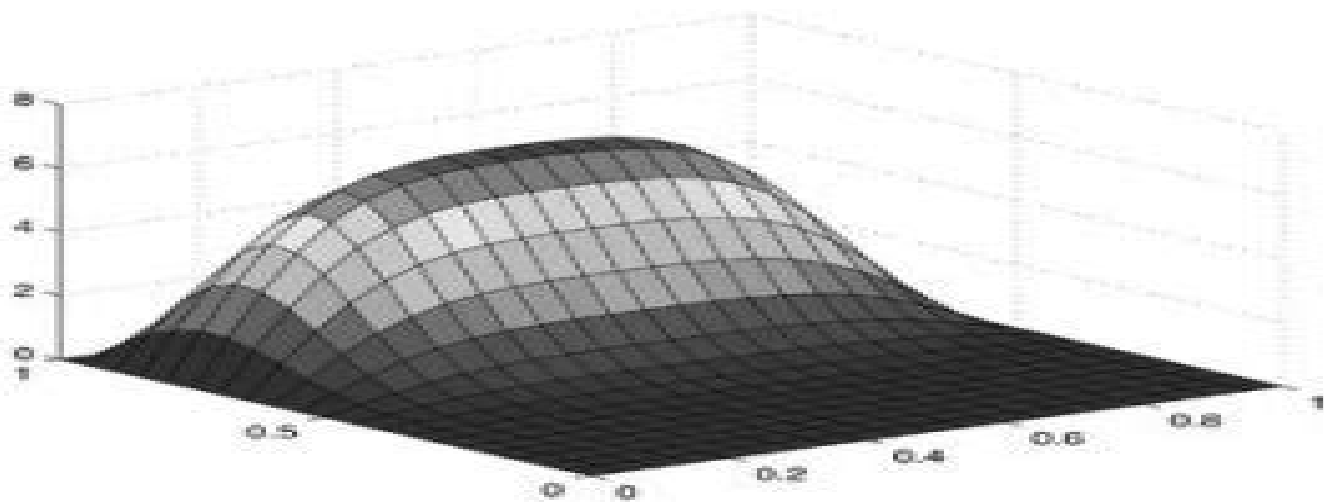


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economist's set of tools and readers will learn to apply recursive methods to a variety of dynamic economic problems. The book is notable for its combination of theoretical foundations and numerical methods. Each topic is first described in theoretical 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.

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*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* Jianjun Miao, 2014-09-12. A unified comprehensive and up to

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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

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**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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