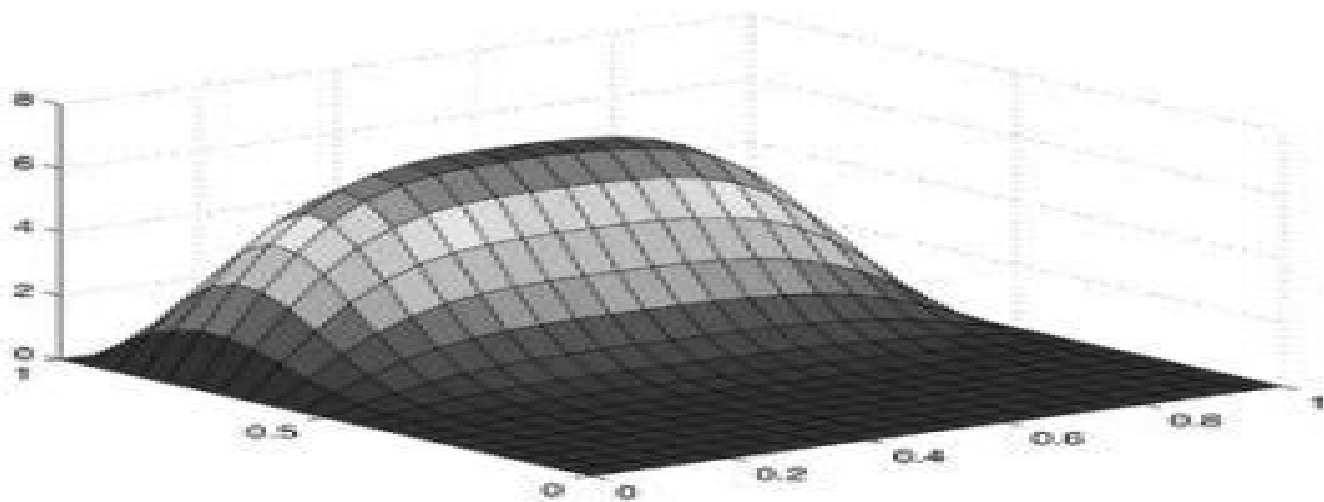


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Economic Dynamics with Memory Vasily E. Tarasov, Valentina V. Tarasova, 2021-01-18 This book presents the applications of fractional calculus fractional operators of non integer orders and fractional differential equations in describing economic dynamics 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, 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

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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.

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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

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