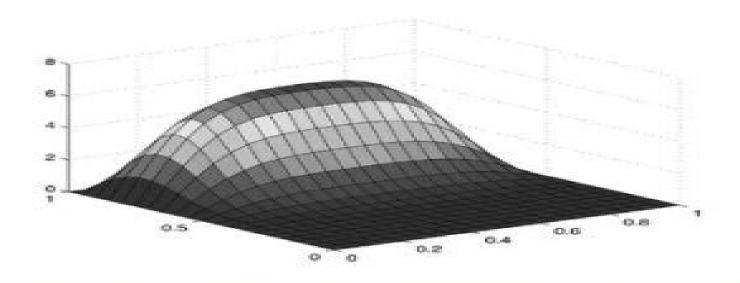
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The focus is on introducing

recursive methods an important part of every economists 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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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 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

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