

METHODS OF DYNAMIC ECONOMICS

JOHN HICKS

Methods Of Dynamic Economics

Michael R. Caputo



Methods Of Dynamic Economics:

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Caputo, 2005-01-17 *Foundations of Dynamic Economic Analysis* presents a modern and thorough exposition of the fundamental mathematical formalism used to study optimal control theory i e continuous time dynamic economic processes and to interpret dynamic economic behavior The style of presentation with its continual emphasis on the economic interpretation of mathematics and models distinguishes it from several other excellent texts on the subject This approach is aided dramatically by introducing the dynamic envelope theorem and the method of comparative dynamics early in the exposition Accordingly motivated and economically revealing proofs of the transversality conditions come about by use of the

dynamic envelope theorem Furthermore such sequencing of the material naturally leads to the development of the primal dual method of comparative dynamics and dynamic duality theory two modern approaches used to tease out the empirical content of optimal control models The stylistic approach ultimately draws attention to the empirical richness of optimal control theory a feature missing in virtually all other textbooks of this type

Dynamic Economic Analysis Gerhard Sorger, 2015-02-12 Focusing on deterministic models in discrete time this concise yet rigorous textbook provides a clear and systematic introduction to the theory and application of dynamic economic models It guides students through the most popular model structures and solution concepts from the simplest dynamic economic models through to complex problems of optimal policy design in dynamic general equilibrium frameworks Chapters feature theorems and practical hints and seventy five worked examples highlight the various methods and results that can be applied in dynamic economic models Notation and formulation is uniform throughout so students can easily discern the similarities and differences between various model classes Chapters include more than sixty exercises for students to self test their analytical skills and password protected solutions are available for instructors on the companion website Assuming no prior knowledge of dynamic economic analysis or dynamic optimization this textbook is ideal for advanced students in economics

Numerical Methods in Economics Kenneth L. Judd, 2023-04-04 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 \mathbb{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

Handbook of Computational Economics Karl Schmedders, Kenneth L. Judd, 2013-12-31 Handbook of Computational Economics summarizes recent advances in economic thought revealing some of the potential offered by modern computational methods With computational power increasing in hardware and algorithms many economists are closing the gap between economic practice and the frontiers of computational mathematics In their efforts to accelerate the incorporation of computational power into mainstream research contributors to this volume update the improvements in algorithms that have sharpened econometric tools solution methods for dynamic optimization and equilibrium models and applications to public finance macroeconomics and auctions They also cover the switch to massive parallelism in the creation of more powerful computers with advances in the development of high power and high throughput computing Much more can be done to expand the value of computational modeling in economics

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methods in financial economics and finance The following topics are covered financial risk and asset pricing and asset returns under alternative contractual arrangements portfolio choice individual behavior towards risk general equilibrium under uncertainty in discrete and continuous time settings indivisibilities and nonconvexities in a general equilibrium context contract theory mechanism design and principal agent relationships in partial and general equilibrium contexts credit markets and option pricing

Stability Methods in Dynamic Economics William A. Brock, Michael J. P. Magill, 1977

Computational Methods for the Study of Dynamic Economies Ramon Marimon, Andrew Scott, 2001 This volume brings together leading contributors in the field of macroeconomics who explain how to implement the computational techniques needed to solve dynamic economics models The contributors cover a broad range of techniques

Economic Dynamics, second edition John Stachurski, 2022-08-16 The second edition of a rigorous and example driven introduction to topics in economic dynamics that emphasizes techniques for modeling dynamic systems This text provides an introduction to the modern theory of economic dynamics with emphasis on mathematical and computational techniques for modeling dynamic systems Written to be both rigorous and engaging the book shows how sound understanding of the underlying theory leads to effective algorithms for solving real world problems The material makes extensive use of programming examples to illustrate ideas bringing to life the abstract concepts in the text Key topics include algorithms and scientific computing simulation Markov models and dynamic programming Part I introduces fundamentals and part II covers more advanced material This second edition has been thoroughly updated drawing on recent research in the field New for the second edition Programming language agnostic presentation using pseudocode New chapter 1 covering conceptual issues concerning Markov chains such as ergodicity and stability New focus in chapter 2 on algorithms and techniques for program design and high performance computing New focus on household problems rather than optimal growth in material on dynamic programming Solutions to many exercises code and other resources available on a supplementary website

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

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