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Thomas J. Sargent

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they explain most of the methods used in applied dynamic research today from the estimation of probability in a coin flip to a complicated nonlinear stochastic structural model These econometric techniques provide the final link between the dynamic programming problem and data Part II is devoted to the application of dynamic programming to specific areas of applied economics including the study of business cycles consumption and investment behavior In each instance the authors present the specific optimization problem as a dynamic programming problem characterize the optimal policy functions estimate the parameters and use models for policy evaluation The original contribution of Dynamic Economics Quantitative Methods and Applications lies in the integrated approach to the empirical application of dynamic optimization programming models This integration shows that empirical applications actually complement the underlying theory of optimization while dynamic programming problems provide needed structure for estimation and policy evaluation **Numerical Dynamic** Dynamic Programming Solutions for Economic Models Requirina Little **Programming in Economics** John Rust, 1994 *Information about the Future* Hans Ulrich Buhl,1983 **Dynamic Macroeconomic Theory** Thomas J. Sargent, 2009-06-01 The tasks of macroeconomics are to interpret observations on economic aggregates in terms of the motivations and constraints of economic agents and to predict the consequences of alternative hypothetical ways of administering government economic policy General equilibrium models form a convenient context for analyzing such alternative government policies In the past ten years the strengths of general equilibrium models and the corresponding deficiencies of Keynesian and monetarist models of the 1960s have induced macroeconomists to begin applying general equilibrium models This book describes some general equilibrium models that are dynamic that have been built to help interpret time series of observations of economic aggregates and to predict the consequences of alternative government interventions. The first part of the book describes dynamic programming search theory and real dynamic capital pricing models Among the applications are stochastic optimal growth models matching models arbitrage pricing theories and theories of interest rates stock prices and options The remaining parts of the book are devoted to issues in monetary theory currency in utility function models cash in advance models Townsend turnpike models and overlapping generations models are all used to study a set of common issues By putting these models to work on concrete problems in exercises offered throughout the text Sargent provides insights into the strengths and weaknesses of these models of money An appendix on functional analysis shows the unity that underlies the mathematics used in disparate areas of rational expectations economics This book on dynamic equilibrium macroeconomics is suitable for graduate level courses a companion book Exercises in Dynamic Macroeconomic Theory provides answers to the exercises and is also available from Harvard University Press **Dynamic Economics** Gregory C. Chow, 1997 This work presents the optimization framework for dynamic economics and treats a number of topics in economics including growth macroeconomics microeconomics finance and dynamic games. The book also teaches by examples using concepts to solve simple problems moving on to general propositions **Recursive Methods in Economic** 

**Dynamics** Nancy L. Stokey, 1989-10-10 This rigorous but brilliantly lucid book presents a self-contained treatment of modern economic dynamics Stokey Lucas and Prescott develop the basic methods of recursive analysis and illustrate the many areas where they can usefully be applied Forward-Looking Decision Making Robert E. Hall, 2010-02-08 Individuals and families make key decisions that impact many aspects of financial stability and determine the future of the economy These decisions involve balancing current sacrifice against future benefits People have to decide how much to invest in health care exercise their diet and insurance They must decide how much debt to take on and how much to save And they make choices about jobs that determine employment and unemployment levels Forward Looking Decision Making is about modeling this individual or family based decision making using an optimizing dynamic programming model Robert Hall first reviews ideas about dynamic programs and introduces new ideas about numerical solutions and the representation of solved models as Markov processes He surveys recent research on the parameters of preferences the intertemporal elasticity of substitution the Frisch elasticity of labor supply and the Frisch cross elasticity He then examines dynamic programming models applied to health spending long term care insurance employment entrepreneurial risk taking and consumer debt Linking theory with data and applying them to real world problems Forward Looking Decision Making uses dynamic optimization programming models to shed light on individual behaviors and their economic implications **Dynamic Programming and** Mathematical Economics Richard Bellman, 1963 **Computational Methods for the Study of Dynamic Economies** Ramon Marimon, Andrew Scott, 1999-03-04 Macroeconomics increasingly uses stochastic dynamic general equilibrium models to understand theoretical and policy issues Unless very strong assumptions are made understanding the properties of particular models requires solving the model using a computer This volume brings together leading contributors in the field who explain in detail how to implement the computational techniques needed to solve dynamic economics models A broad spread of techniques are covered and their application in a wide range of subjects discussed The book provides the basics of a toolkit which researchers and graduate students can use to solve and analyse their own theoretical models 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 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 Variational Methods in

**Economics** G. Hadley, M. C. Kemp, 2014-07-22 Advanced Textbooks in Economics Volume 1 Variational Methods in Economics focuses on the application of variational methods in economics including autonomous system dynamic programming and phase spaces and diagrams The manuscript first elaborates on growth models in economics and calculus of variations Discussions focus on connection with dynamic programming variable end points free boundaries transversality at infinity sensitivity analysis end point changes Weierstrass and Legendre necessary conditions and phase diagrams and phase spaces The text then ponders on the constraints of classical theory including unbounded intervals of integration free boundary conditions comparison functions normality and the problem of Bolza The publication explains two sector models of optimal economic growth optimal control theory and connections with the classical theory Topics include capital good immobile between industries constrained state variables linear control problems conversion of a control problem into a problem of Lagrange and the conversion of a nonautonomous system into an autonomous system The book is a valuable source of information for economists and researchers interested in the variational methods in economics Annotated Bibliography on the Analysis of Water Resource Systems Daniel P. Loucks, 1973 **Investment and Exit Decisions at the Plant Level** Joachim Winter, 2012-12-06 This book develops a dynamic programming framework for the analysis of firms joint investment and market exit decisions and reviews methods for econometric estimation of such models In an empirical application of this framework a version of this model that allows for financial constraints is estimated by structural methods using a plant level dataset for a sample of U S firms The empirical analysis shows that both the plant s productivity and firm level financial constraints have important effects on plant level investment and exit decisions The main contribution of the book to the empirical investment literature is the application of a mixed discrete continuous Markov process framework to investment and exit decisions and the structural estimation using a full information maximum likelihood method the nested fixed point algorithm A Selected Annotated Bibliography on the Analysis of Water Resource A Selected Annotated Bibliography on the Analysis of Water Systems Water Resources Scientific Information Center, 1973 Dynamic Programming and Its Application in Economics and Finance Cai Yongyang, 2009 Resource Systems, 1969 Multistage decision problems are numerically challenging Typically the work to solve such problems is an exponential function with respect to both the number of stages and the number of decision parameters. The problems have been researched extensively and a wide variety of methods to solve them have been proposed Inevitably all methods are limited in the size of problem they can solve The purpose of our work is to develop a new more efficient algorithm and one that can run on parallel architectures thereby extending significantly the size of problems that are tractable We present a numerical dynamic programming algorithm that has three components optimization approximation and integration A key feature of the approximation methods we use is to preserve mathematical features such as convexity and differentiability which enables us to use powerful optimization methods To illustrate the efficiency of the new method we present extensive results on optimal

Recursive Models of Dynamic Linear Economies Lars Peter Hansen, Thomas J. Sargent, 2013-12-29 A guide to the economic modeling of household preferences from two leaders in the field A common set of mathematical tools underlies dynamic optimization dynamic estimation and filtering In Recursive Models of Dynamic Linear Economies Lars Peter Hansen and Thomas Sargent use these tools to create a class of econometrically tractable models of prices and quantities They present examples from microeconomics macroeconomics and asset pricing The models are cast in terms of a representative consumer While Hansen and Sargent demonstrate the analytical benefits acquired when an analysis with a representative consumer is possible they also characterize the restrictiveness of assumptions under which a representative household justifies a purely aggregative analysis Hansen and Sargent unite economic theory with a workable econometrics while going beyond and beneath demand and supply curves for dynamic economies They construct and apply competitive equilibria for a class of linear quadratic Gaussian dynamic economies with complete markets Their book based on the 2012 Gorman lectures stresses heterogeneity aggregation and how a common structure unites what superficially appear to be diverse applications An appendix describes MATLAB programs that apply to the book s calculations

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