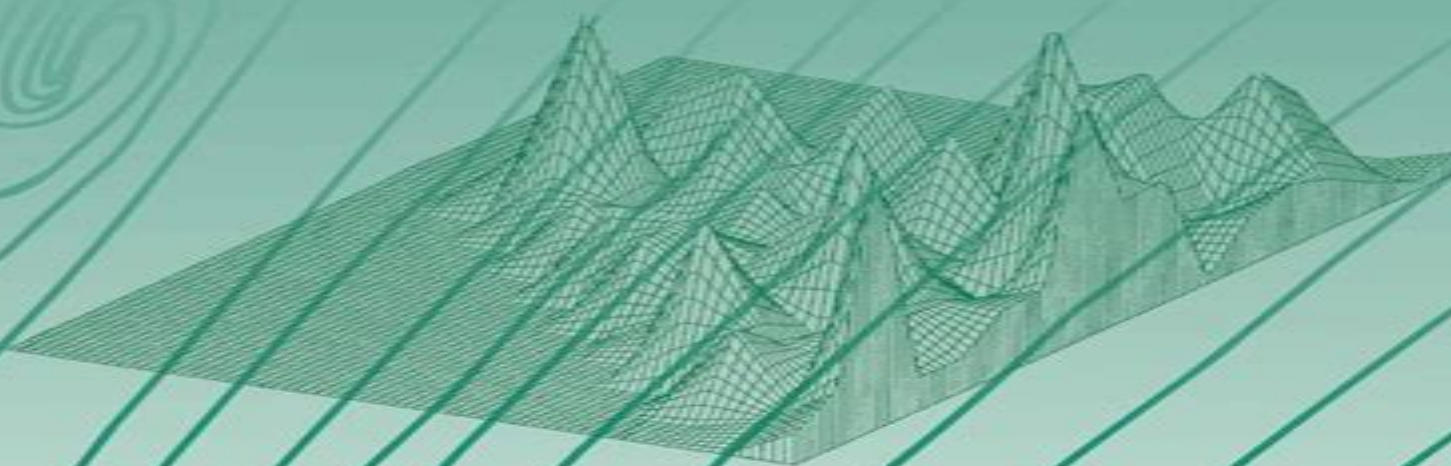


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Investment and Exit Decisions at the Plant Level Joachim Winter, 2012-12-06 This book develops a dynamic programming framework for the analysis of firms joint investment and market exit decisions and reviews methods for econometric estimation of such 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 Systems* Water Resources Scientific Information Center, 1973 *A Selected Annotated Bibliography on the Analysis of Water Resource Systems*, 1969 *Dynamic Programming and Its Application in Economics and Finance* Cai Yongyang, 2009

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

growth models and dynamic portfolio problems using our implementation of the algorithm on the Condor Master Worker system

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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