

Optimal Control Theory And Static Optimization In Economics Hardcover

Mathematical Optimization and Economic Theory Optimization in Economics and Finance Mathematical Optimization and Economic Analysis Elements of Optimization Optimal Control Theory and Static Optimization in Economics Optimization in Economics and Finance Natural Resource Economics Dynamic Optimization and Mathematical Economics Approximation, Optimization and Mathematical Economics Optimization in Economic Theory An Explanation of Constrained Optimization for Economists Elements of Dynamic Optimization Dynamic Optimization Mathematical Analysis and Optimization for Economists A Selected Annotated Bibliography on the Analysis of Water Resource Systems Production Economics Risk Management in Supply Chains A Selected Annotated Bibliography on the Analysis of Water Resource Systems Business Economics-IA Selected Annotated Bibliography on the Analysis of Water Resource Systems Michael D. Intriligator Bruce D. Craven Mikuláš Luptáčík Delia Koo Daniel Léonard Bruce Desmond Craven Jon M. Conrad Pan-Tai Liu Marc Lassonde Avinash K. Dixit Peter B. Morgan Alpha C. Chiang Morton I. Kamien Michael J. Panik Steven T. Hackman Mohammad Heydari Daniel P. Loucks Dr. Mallikarjun Gadad Water Resources Scientific Information Center

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a classic account of mathematical programming and control techniques and their applications to static and dynamic problems in economics

extends the optimization techniques in a form that may be adopted for modeling social choice problems the models in this book provide possible models for a society's social choice for an allocation that maximizes welfare and utilization of resources a computer program *scm* is presented here for computing social choice models by optimal control

mathematical optimization and economic analysis is a self contained introduction to various optimization techniques used in economic modeling and analysis such as geometric linear and convex programming and data envelopment analysis through a systematic approach this book demonstrates the usefulness of these mathematical tools in quantitative and qualitative economic analysis the book presents specific examples to demonstrate each technique's advantages and applicability as well as numerous applications of these techniques to industrial economics regulatory economics trade policy economic sustainability production planning and environmental policy key features include a detailed presentation of both single objective and multiobjective optimization an in depth exposition of various applied optimization problems implementation of optimization tools to improve the accuracy of various economic models extensive resources suggested for further reading this book is intended for graduate and postgraduate students studying quantitative economics as well as economics researchers and applied mathematicians requirements include a basic knowledge of calculus and linear algebra and a familiarity with economic modeling

this book attempts to present the concepts which underlie the various optimization procedures which are commonly used it is written primarily for those scientists such as economists operations researchers and engineers whose main tools of analysis involve optimization techniques and who possess a not very sharp knowledge of one or one and a half year's calculus through partial differentiation and Taylor's theorem and some acquaintance with elementary vector and matrix terminology such a scientist is frequently confronted with expressions such as Lagrange multipliers first and second order conditions linear programming and activity analysis duality the Kuhn-Tucker conditions and more recently dynamic programming and optimal control he or she uses or needs to use these optimization techniques and would like to feel more comfortable with them through better understanding of their underlying mathematical concepts but has no immediate use for a formal theorem proof treatment which quickly abstracts to a general case of n variables and uses a style and terminology that are discouraging to people who are not mathematics majors the emphasis of this book is on clarity and plausibility through examples which are worked out step by step in detail i hope to illustrate some tools which will be useful to scientists when they apply optimization techniques to their problems most of the chapters may be read independently of each other with the exception of chapter 6 which depends on chapter 5 for instance the reader will find little or no difficulty in reading chapter 8 without having read the

previous chapters

optimal control theory is a technique being used increasingly by academic economists to study problems involving optimal decisions in a multi period framework this textbook is designed to make the difficult subject of optimal control theory easily accessible to economists while at the same time maintaining rigour economic intuitions are emphasized and examples and problem sets covering a wide range of applications in economics are provided to assist in the learning process theorems are clearly stated and their proofs are carefully explained the development of the text is gradual and fully integrated beginning with simple formulations and progressing to advanced topics such as control parameters jumps in state variables and bounded state space for greater economy and elegance optimal control theory is introduced directly without recourse to the calculus of variations the connection with the latter and with dynamic programming is explained in a separate chapter a second purpose of the book is to draw the parallel between optimal control theory and static optimization chapter 1 provides an extensive treatment of constrained and unconstrained maximization with emphasis on economic insight and applications starting from basic concepts it derives and explains important results including the envelope theorem and the method of comparative statics this chapter may be used for a course in static optimization the book is largely self contained no previous knowledge of differential equations is required

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 this book 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

in this book jon conrad and colin clark develop the theory of resource economics

as an outgrowth of the advancement in modern control theory during the past 20 years dynamic modeling and analysis of economic systems has become an important subject in the study of economic theory recent developments in dynamic utility economic planning and profit optimization for example have been greatly influenced by results in optimal control stabilization estimation optimization under conflicts multi criteria optimization control of large scale systems etc the great success that has been achieved so far in utilizing modern control theory in economic systems should be attributed to the effort of control theorists as well as economists collaboration between the two groups of researchers has proven to be most successful in many instances nevertheless the gap between them has existed for some time whereas a control theorist frequently sets up a mathematically feasible model to obtain results that permit economic interpretations an economist is concerned more with the fidelity of the model in representing a real world problem and results that are obtained through possibly less mathematical analysis are due largely to economic insight the papers appearing in this volume are divided into three parts in part i there are five papers on the application of control theory to economic planning part ii contains five papers on exploration exploitation and pricing of extractive natural resources finally in part iii some recent advances in large scale systems and decentralized control appear

the articles in this proceedings volume reflect the current trends in the theory of approximation optimization and mathematical economics and include numerous applications the book will be of interest to researchers and graduate students involved in functional analysis approximation theory mathematical programming and optimization game theory mathematical finance and economics

a new edition of a student text which provides a broad study of optimization methods it builds on the base of simple economic theory elementary linear algebra and calculus and reinforces each new mathematical idea by relating it to its economic application

peter b morgan's explanation of constrained optimization for economists is an accessible user friendly guide that provides explanations both written and visual of the manner in which many constrained optimization problems can be solved

designed to be used with chiang's fundamental methods of mathematical economics or independently at advanced undergraduate or graduate level this text presents an in depth exploration of dynamic optimization in economics

originally published amsterdam elsevier science c1991

in mathematical analysis and optimization for economists the author aims to introduce students of economics to the power and versatility of traditional as well as contemporary methodologies in mathematics and optimization theory and illustrates how these techniques can be applied in solving microeconomic problems this book combines the areas of intermediate to advanced mathematics optimization and microeconomic decision making and is suitable for advanced undergraduates and first year graduate students this text is highly readable with all concepts fully defined and contains numerous detailed example problems in both mathematics and microeconomic applications each section contains some standard as well as more thoughtful and challenging exercises solutions can be downloaded from the crc press website all solutions are detailed and complete features contains a whole spectrum of modern applicable mathematical techniques many of which are not found in other books of this type comprehensive and contains numerous and detailed example problems in both mathematics and economic analysis suitable for economists and economics students with only a minimal mathematical background classroom tested over the years when the author was actively teaching at the university of hartford serves as a beginner text in optimization for applied mathematics students accompanied by several electronic chapters on linear algebra and matrix theory nonsmooth optimization economic efficiency and distance functions available for free on routledge com 9780367759018

this scholarly yet accessible book provides an introduction to the main topics in production economics the book successfully integrates two historically distinct perspectives on modeling technology from microeconomics and engineering

the book examines a relatively unexplored issue in supply chain risk management which is how long companies specifically take to respond to catastrophic events of low probability but high impact the book also looks at why such supply chain disruptions are unavoidable and consequently all complex supply chains are inherently at risk the book illustrates how companies can respond to supply chain disruptions with faster responses and in shorter lead times to reduce impact in reducing total response time designing solutions and deploying a recovery plan sooner after a disruption in anticipation of such events companies reduce the impact of disruption risk the book also explores the basics of multiple criteria decision making mcdm and analytic hierarchy process ahp and how they contribute to both the quality of the financial economic decision making process and the quality of the resulting decisions the book illustrates through cases in the construction sector how this industry has become more complex and riskier due to the diverse nature of activities among global companies

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