Mikuláš Luptáčik

Mathematical Optimization and Economic Analysis

Mathematical Optimization And Economic Analysis Springer Optimization And Its Applications

Brian Beavis,Ian M. Dobbs

Mathematical Optimization And Economic Analysis Springer Optimization And Its Applications:
Mathematical Optimization and Economic Analysis Mikulás Luptácik,2009-10-03 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

Fundamental Methods of Mathematical Economics Alpha C. Chiang,Kevin Wainwright,2005-02-02 For this fourth edition of a text for students of economics Chiang University of Connecticut and Wainwright British Columbia Institute of Technology add new chapters on the envelope theorem advanced topics in optimization and optimal control theory and delete a chapter on mathematical programming The book can serve as a text for a course o **Business Analytics Principles, Concepts, and Applications** Marc J. Schniederjans,Dara G. Schniederjans,Christopher M. Starkey,2014-04-23 Learn everything you need to know to start using business analytics and integrating it throughout your organization Business Analytics Principles Concepts and Applications brings together a complete integrated package of knowledge for newcomers to the subject The authors present an up to date view of what business analytics is why it is so valuable and most importantly how it is used They combine essential conceptual content with clear explanations of the tools techniques and methodologies actually used to implement modern business analytics initiatives They offer a proven step wise approach to designing an analytics program and successfully integrating it into your organization so it effectively provides intelligence for competitive advantage in decision making Using step by step examples the authors identify common challenges that can be addressed by business analytics illustrate each type of analytics descriptive prescriptive and predictive and guide users in undertaking their own projects Illustrating the real world use of statistical information systems and management science methodologies these examples help readers successfully apply the methods they are learning Unlike most competitive guides this text demonstrates the use of IBM s menu based SPSS software permitting instructors to spend less time teaching software and more time focusing on business analytics itself A valuable resource for all beginning to intermediate level business analysts and business analytics managers for MBA Masters degree students in the field and for advanced undergraduates majoring in

statistics applied mathematics or engineering operations research   Optimal Control Problems Arising in Mathematical Economics Alexander J. Zaslavski,2022-06-28 This book is devoted to the study of two large classes of discrete time optimal control problems arising in mathematical economics Nonautonomous optimal control problems of the first class are determined by a sequence of objective functions and sequence of constraint maps They correspond to a general model of economic growth We are interested in turnpike properties of approximate solutions and in the stability of the turnpike phenomenon under small perturbations of objective functions and constraint maps The second class of autonomous optimal control problems corresponds to another general class of models of economic dynamics which includes the Robinson Solow Srinivasan model as a particular case In Chap 1 we discuss turnpike properties for a large class of discrete time optimal control problems studied in the literature and for the Robinson Solow Srinivasan model In Chap 2 we introduce the first class of optimal control problems and study its turnpike property This class of problems is also discussed in Chaps 3 6 In Chap 3 we study the stability of the turnpike phenomenon under small perturbations of the objective functions Analogous results for problems with discounting are considered in Chap 4 In Chap 5 we study the stability of the turnpike phenomenon under small perturbations of the objective functions and the constraint maps Analogous results for problems with discounting are established in Chap 6 The results of Chaps 5 and 6 are new The second class of problems is studied in Chaps 7 9 In Chap 7 we study the turnpike properties The stability of the turnpike phenomenon under small perturbations of the objective functions is established in Chap 8 In Chap 9 we establish the stability of the turnpike phenomenon under small perturbations of the objective functions and the constraint maps The results of Chaps 8 and 9 are new In Chap 10 we study optimal control problems related to a model of knowledge based endogenous economic growth and show the existence of trajectories of unbounded economic growth and provide estimates for the growth rate   **Business Analytics Principles, Concepts, and Applications with SAS** Marc J. Schniederjans,Dara G. Schniederjans,Christopher M. Starkey,2014-10-07 Responding to a shortage of effective content for teaching business analytics this text offers a complete integrated package of knowledge for newcomers to the subject The authors present an up to date view of what business analytics is why it is so valuable and most importantly how it is used They combine essential conceptual content with clear explanations of the tools techniques and methodologies actually used to implement modern business analytics initiatives Business Analytics Principles Concepts and Applications with SAS offers a proven step wise approach to designing an analytics program and successfully integrating it into your organization so it effectively provides intelligence for competitive advantage in decision making Using step by step examples the authors identify common challenges that can be addressed by business analytics illustrate each type of analytics descriptive prescriptive and predictive and guide users in undertaking their own projects Illustrating the real world use of statistical information systems and management science methodologies these examples help readers successfully apply the methods they are learning Unlike most competitive guides Business Analytics Principles Concepts and Applications

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   Ebook: Fundamental Methods of Mathematical Economics Chiang,2005-06-16 Ebook Fundamental Methods of Mathematical Economics   **Introduction to Continuous Optimization** Roman A. Polyak,2021-04-29 This self contained monograph presents the reader with an authoritative view of Continuous Optimization an area of mathematical optimization that has experienced major developments during the past 40 years The book contains results which have not yet been covered in a systematic way as well as a summary of results on NR theory and methods developed over the last several decades The readership is aimed to graduate students in applied mathematics computer science economics as well as researchers working in optimization and those applying optimization methods for solving real life problems Sufficient exercises throughout provide graduate students and instructors with practical utility in a two semester course in Continuous Optimization The topical coverage includes interior point methods self concordance theory and related complexity issues first and second order methods with accelerated convergence nonlinear rescaling NR theory and exterior point methods just to mention a few The book contains a unified approach to both interior and exterior point methods with emphasis of the crucial duality role One of the main achievements of the book shows what makes the exterior point methods numerically attractive and why The book is composed in five parts The first part contains the basics of calculus convex analysis elements of unconstrained optimization as well as classical results of linear and convex optimization The second part contains the basics of self concordance theory and interior point methods including complexity results for LP QP and QP with quadratic constraint semidefinite and conic programming In the third part the NR and Lagrangian transformation theories are considered and exterior point methods are described Three important problems in finding equilibrium are considered in the fourth part In the fifth and final part of the book several important applications arising in economics structural optimization medicine statistical learning theory and more are detailed Numerical results obtained by solving a number of real life and test problems are also provided   **Mathematical Optimization and Economic Analysis** Mikulás Luptácik,2008-11-01 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 **Handbook of Research on Advances and Applications of Fuzzy Sets and Logic** Broumi, Said,2022-03-04 Fuzzy logic which is based on the concept of fuzzy set has enabled scientists to create models under conditions of imprecision vagueness or both at once As a result it has now found many important applications in almost all sectors of human activity becoming a complementary feature and supporter of probability theory which is suitable for modelling situations of uncertainty derived from randomness Fuzzy mathematics has also significantly developed at the theoretical level providing important insights into branches of traditional mathematics like algebra analysis geometry topology and more With such widespread applications fuzzy sets and logic are an important area of focus in mathematics The Handbook of Research on Advances and Applications of Fuzzy Sets and Logic studies recent theoretical advances of fuzzy sets and numbers fuzzy systems fuzzy logic and their generalizations extensions and more This book also explores the applications of fuzzy sets and logic applied to science technology and everyday life to further provide research on the subject This book is ideal for mathematicians physicists computer specialists engineers practitioners researchers academicians and students who are looking to learn more about fuzzy sets fuzzy logic and their applications **Foundations of Mathematical Economics** Michael Carter,2001-10-26 This book provides a comprehensive introduction to the mathematical foundations of economics from basic set theory to fixed point theorems and constrained optimization Rather than simply offer a collection of problem solving techniques the book emphasizes the unifying mathematical principles that underlie economics Features include an extended presentation of separation theorems and their applications an account of constraint qualification in constrained optimization and an introduction to monotone comparative statics These topics are developed by way of more than 800 exercises The book is designed to be used as a graduate text a resource for self study and a reference for the professional economist **Introduction to the Theory of Optimization in Euclidean Space** Samia Challal,2019-11-11 Introduction to the Theory of Optimization in Euclidean Space is intended to provide students with a robust introduction to optimization in Euclidean space demonstrating the theoretical aspects of the subject whilst also providing clear proofs and applications Students are taken progressively through the development of the proofs where they have the occasion to practice tools of differentiation Chain rule Taylor formula for functions of several variables in abstract situations Throughout this book students will learn the necessity of referring to important results established in advanced Algebra and Analysis courses Features Rigorous and practical offering proofs and applications of theorems Suitable as a textbook for advanced undergraduate students on mathematics or economics courses or as reference for graduate level

readers Introduces complex principles in a clear illustrative fashion *Optimization and Stability Theory for Economic Analysis* Brian Beavis,Ian M. Dobbs,1990 This book presents a coherent and systematic exposition of the mathematical theory of the problems of optimization and stability Both of these are topics central to economic analysis since the latter is so much concerned with the optimizing behaviour of economic agents and the stability of the interaction processes to which this gives rise The topics covered include convexity mathematical programming fixed point theorems comparative static analysis and duality the stability of dynamic systems the calculus of variations and optimal control theory The authors present a more detailed and wide ranging discussion of these topics than is to be found in the few books which attempt a similar coverage Although the text deals with fairly advanced material the mathematical prerequisites are minimised by the inclusion of an integrated mathematical review designed to make the text self contained and accessible to the reader with only an elementary knowledge of calculus and linear algebra A novel feature of the book is that it provides the reader with an understanding and feel for the kinds of mathematical techniques most useful for dealing with particular economic problems This is achieved through an extensive use of a broad range of economic examples rather than the numerical algebraic examples so often found This is suitable for use in advanced undergraduate and postgraduate courses in economic analysis and should in addition prove a useful reference work for practising economists **Handbook of Game Theory with Economic Applications** R.J. Aumann,S. Hart,1992 This is the second of three volumes surveying the state of the art in Game Theory and its applications to many and varied fields in particular to economics The chapters in the present volume are contributed by outstanding authorities and provide comprehensive coverage and precise statements of the main results in each area The applications include empirical evidence The following topics are covered communication and correlated equilibria coalitional games and coalition structures utility and subjective probability common knowledge bargaining zero sum games differential games and applications of game theory to signalling moral hazard search evolutionary biology international relations voting procedures social choice public economics politics and cost allocation This handbook will be of interest to scholars in economics political science psychology mathematics and biology For more information on the Handbooks in Economics series please see our home page on http www elsevier nl locate hes Advanced Mathematical Methods In Environmental And Resource Economics Anastasios Xepapadeas,2022-09-20 The most interesting issues in environmental and resource economics have an explicit temporal dimension since variables of interest such as pollutants greenhouse gases biomass of biological resources or the stocks of fossil fuels accumulate in the ambient environment or are depleted through human actions and natural processes The purpose of these lectures is to present the mathematical tools for analyzing environmental and resource management issues in a dynamic set up The lectures include a brief description of differential equations and then move on to describe methods of optimal control dynamic programing and differential games The final chapters cover two novel topics 1 environmental issues characterized by deep uncertainty and aversion to

ambiguity using robust control methods and formulations of precautionary policies and 2 the study of pollution resource management in space and time when the environmental variables evolve in time and diffuse in space The lectures are a valuable tool for advanced graduate students in environmental and resource economics who are studying dynamic problems

Optimization Theory and Related Topics Simeon Reich,Alexander J. Zaslavski,2012 This volume contains the proceedings of the workshop on Optimization Theory and Related Topics held in memory of Dan Butnariu from January 11 14 2010 in Haifa Israel An active researcher in various fields of applied mathematics Butnariu published over 80 papers His extensive bibliography is included in this volume The articles in this volume cover many different areas of Optimization Theory and its applications maximal monotone operators sensitivity estimates via Lyapunov functions inverse Newton transforms infinite horizon Pontryagin principles singular optimal control problems with state delays descent methods for mixed variational inequalities games on MV algebras ergodic convergence in subgradient optimization applications to economics and technology planning the exact penalty property in constrained optimization nonsmooth inverse problems Bregman distances retraction methods in Banach spaces and iterative methods for solving equilibrium problems This volume will be of interest to both graduate students and research mathematicians **Lectures In The Microeconomics Of Choice: Foundations, Consumers, And Producers** William David Anthony Bryant,2023-02-17 People pursue their own interests whatever those interests might be Some people have interests that are narrow and selfish while others have interests that are broad and altruistic The idea that people are self interested underpins all of economic analysis and raises two fundamental questions 1 How do people choose the actions they think will further their own interests 2 Can the potentially conflicting interests of different people be made to mesh in some sort of socio economic equilibrium This book is devoted to a detailed study of the first question Its Companion Volume Economy Wide Microeconomics Equilibrium Optimality Applications and Tests makes a detailed study of the second question Following some foundational remarks this book studies the Arrow Debreu theory of consumer choice That theory supposes people choose so as to maximize a complete continuous transitive and reflexive binary preference relation over a non empty and compact choice set The book then studies numerous refinements generalizations and extensions of each of these restrictions up to and including recent work on Behavioral theories of choice and choice behaviour when preferences are intransitive incomplete discontinuous Also considered is choice behaviour in environments that are not necessarily compact A study is also made of intertemporal choice and choice under uncertainty The study of Arrow Debreu choice theory and its extensions are presented from the Primal Dual and Revealed Preference points of view Consumers are not the only agents in the economy as Producers are present as well Beginning with a study of the Arrow Debreu idea that producers choose from a convex production set so as to maximize profit the book considers extensions and generalizations of this framework particularly to non convex environments The study is presented from the Primal and Dual points of view The final chapter in the book provides a link to its Companion Volume The Chapter indicates how the theories

of consumer and producer choice studied here help inform answers of the second question posed above Resources are available to instructors who adopt this book More details at www worldscientific com worldscibooks 10 1142 12789 sm

Canadian Mathematical Bulletin ,1992-12   **Encyclopedia of Quantitative Risk Analysis and Assessment** ,2008-09-02 Leading the way in this field the Encyclopedia of Quantitative Risk Analysis and Assessment is the first publication to offer a modern comprehensive and in depth resource to the huge variety of disciplines involved A truly international work its coverage ranges across risk issues pertinent to life scientists engineers policy makers healthcare professionals the finance industry the military and practising statisticians Drawing on the expertise of world renowned authors and editors in this field this title provides up to date material on drug safety investment theory public policy applications transportation safety public perception of risk epidemiological risk national defence and security critical infrastructure and program management This major publication is easily accessible for all those involved in the field of risk assessment and analysis For ease of use it is available in print and online   **Game Theoretic Analysis** Leon A Petrosyan,David W K Yeung,2019-10-14 This is a collection of recent novel contributions in game theory from a group of prominent authors in the field It covers Non cooperative Games Equilibrium Analysis Cooperative Games and Axiomatic Values in static and dynamic contexts Part 1 Non cooperative Games and Equilibrium AnalysisIn game theory a non cooperative game is a game with competition between individual players and in which only self enforcing e g through credible threats alliances or competition between groups of players called coalitions are possible due to the absence of external means to enforce cooperative behavior e g contract law as opposed to cooperative games In fact non cooperative games are the foundation for the development of cooperative games by acting as the status quo Non cooperative games are generally analysed through the framework of equilibrium which tries to predict players individual strategies and payoffs Indeed equilibrium analysis is the centre of non cooperative games This volume on non cooperative games and equilibrium analysis contains a variety of non cooperative games and non cooperative game equilibria from prominent authors in the field Part 2 Cooperative Games and Axiomatic ValuesIt is well known that non cooperative behaviours in general would not lead to a Pareto optimal outcome Highly undesirable outcomes like the prisoner s dilemma and even devastating results like the tragedy of the commons could appear when the involved parties only care about their individual interests in a non cooperative situation Cooperative games offer the possibility of obtaining socially optimal and group efficient solutions to decision problems involving strategic actions In addition axiomatic values serve as guidance for establishing cooperative solutions This volume on cooperative games and axiomatic values presents a collection of cooperative games and axiomatic values from prominent authors in the field

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