

Introduction to Mathematical Optimization



Matteo Fischetti

Introduction To Mathematical Optimization

B. Guenin, J. Könemann, L. Tunçel



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Introduction to Mathematical Optimization Xin-She Yang,2008 This book strives to provide a balanced coverage of efficient algorithms commonly used in solving mathematical optimization problems It covers both the conventional algorithms and modern heuristic and metaheuristic methods Topics include gradient based algorithms such as Newton Raphson method steepest descent method Hooke Jeeves pattern search Lagrange multipliers linear programming particle swarm optimization PSO simulated annealing SA and Tabu search Multiobjective optimization including important concepts such as Pareto optimality and utility method is also described Three Matlab and Octave programs so as to demonstrate how PSO and SA work are provided An example of demonstrating how to modify these programs to solve multiobjective optimization problems using recursive method is discussed

Introduction to Mathematical Optimization Matteo Fischetti,2019-09-12 This book is intended to be a teaching aid for students of the courses in Operations Research and Mathematical Optimization for scientific faculties Some of the basic topics of Operations Research and Optimization are considered Linear Programming Integer Linear Programming Computational Complexity and Graph Theory Particular emphasis is given to Integer Linear Programming with an exposition of the most recent resolution techniques and in particular of the branch and cut method The work is accompanied by numerous examples and exercises

Mathematical Programming Melvyn Jeter,2018-05-03 This book serves as an introductory text in mathematical programming and optimization for students having a mathematical background that includes one semester of linear algebra and a complete calculus sequence It includes computational examples to aid students develop computational skills

Introduction to Mathematical Programming Frederick S. Hillier,Gerald J. Lieberman,1995

Introduction To Mathematical Optimization Xin-She Yang,2009-01-01

Introduction to Optimization Pablo Pedregal,2003-11-03 This undergraduate textbook introduces students of science and engineering to the fascinating field of optimization It is a unique book that brings together the subfields of mathematical programming variational calculus and optimal control thus giving students an overall view of all aspects of optimization in a single reference As a primer on optimization its main goal is to provide a succinct and accessible introduction to linear programming nonlinear programming numerical optimization algorithms variational problems dynamic programming and optimal control Prerequisites have been kept to a minimum although a basic knowledge of calculus linear algebra and differential equations is assumed

Practical Mathematical Optimization Jan Snyman,2005-03-03 This book presents basic optimization principles and gradient based algorithms to a general audience in a brief and easy to read form It enables professionals to apply optimization theory to engineering physics chemistry or business 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

A Gentle Introduction to Optimization B. Guenin, J. Könemann, L. Tunçel, 2014-07-31 Optimization is an essential technique for solving problems in areas as diverse as accounting computer science and engineering Assuming only basic linear algebra and with a clear focus on the fundamental concepts this textbook is the perfect starting point for first and second year undergraduate students from a wide range of backgrounds and with varying levels of ability Modern real world examples motivate the theory throughout The authors keep the text as concise and focused as possible with more advanced material treated separately or in starred exercises Chapters are self contained so that instructors and students can adapt the material to suit their own needs and a wide selection of over 140 exercises gives readers the opportunity to try out the skills they gain in each section Solutions are available for instructors The book also provides suggestions for further reading to help students take the next step to more advanced material

Introduction to Optimization Boris Teodorovich Poljak, 1987

Optimization Techniques L. R. Foulds, 2012-12-06 Optimization is the process by which the optimal solution to a problem or optimum is produced The word optimum has come from the Latin word optimus meaning best And since the beginning of his existence Man has strived for that which is best There has been a host of contributions from Archimedes to the present day scattered across many disciplines Many of the earlier ideas although interesting from a theoretical point of view were originally of little practical use as they involved a daunting amount of computational effort Now modern computers perform calculations whose time was once estimated in man years in the figurative blink of an eye Thus it has

been worthwhile to resurrect many of these earlier methods. The advent of the computer has helped bring about the unification of optimization theory into a rapidly growing branch of applied mathematics. The major objective of this book is to provide an introduction to the main optimization techniques which are at present in use. It has been written for final year undergraduates or first year graduates studying mathematics, engineering, business or the physical or social sciences. The book does not assume much mathematical knowledge. It has an appendix containing the necessary linear algebra and basic calculus making it virtually self-contained. This text evolved out of the experience of teaching the material to finishing undergraduates and beginning graduates.

Introduction to Mathematical Optimization Utz-Uwe Haus, Rico Zenklusen (Mathematiker), 2014

Mathematical Optimization and Economic Theory Michael D. Intriligator, 1971-01-01

Mathematical Optimization and Economic Theory provides a self-contained introduction to and survey of mathematical programming and control techniques and their applications to static and dynamic problems in economics respectively. It is distinctive in showing the unity of the various approaches to solving problems of constrained optimization that all stem back directly or indirectly to the method of Lagrange multipliers. In the 30 years since its initial publication there have been many more applications of these mathematical techniques in economics as well as some advances in the mathematics of programming and control. Nevertheless the basic techniques remain the same today as when the book was originally published. Thus it continues to be useful not only to its original audience of advanced undergraduate and graduate students in economics but also to mathematicians and other researchers interested in learning about the applications of the mathematics of optimization to economics. The book covers in some depth both static programming problems and dynamic control problems of optimization and the techniques of their solution. It also clearly presents many applications of these techniques to economics and it shows why optimization is important for economics.

Audience: mathematicians and other researchers who are interested in learning about the applications of mathematical optimization in economics as well as students at the advanced undergraduate and beginning graduate level. A basic knowledge of analysis and matrix algebra is recommended. Two appendices summarize the necessary mathematics.

Business Optimization Using Mathematical Programming Josef Kallrath, 2021-08-31

This book presents a structured approach to formulate model and solve mathematical optimization problems for a wide range of real world situations. Among the problems covered are production distribution and supply chain planning, scheduling, vehicle routing as well as cutting stock, packing and nesting. The optimization techniques used to solve the problems are primarily linear, mixed integer, linear nonlinear and mixed integer nonlinear programming. The book also covers important considerations for solving real world optimization problems such as dealing with valid inequalities and symmetry during the modeling phase but also data interfacing and visualization of results in a more and more digitized world. The broad range of ideas and approaches presented helps the reader to learn how to model a variety of problems from process industry, paper and metals industry, the energy sector and logistics using mathematical optimization techniques.

Introduction to Optimization Methods P. Adby, 2013-03-09 During the last decade the techniques of non linear optimization have emerged as an important subject for study and research The increasingly widespread application of optimization has been stimulated by the availability of digital computers and the necessity of using them in the investigation of large systems This book is an introduction to non linear methods of optimization and is suitable for undergraduate and post graduate courses in mathematics the physical and social sciences and engineering The first half of the book covers the basic optimization techniques including linear search methods steepest descent least squares and the Newton Raphson method These are described in detail with worked numerical examples since they form the basis from which advanced methods are derived Since 1965 advanced methods of unconstrained and constrained optimization have been developed to utilise the computational power of the digital computer The second half of the book describes fully important algorithms in current use such as variable metric methods for unconstrained problems and penalty function methods for constrained problems Recent work much of which has not yet been widely applied is reviewed and compared with currently popular techniques under a few generic main headings vi PREFACE Chapter I describes the optimization problem in mathematical form and defines the terminology used in the remainder of the book Chapter 2 is concerned with single variable optimization The main algorithms of both search and approximation methods are developed in detail since they are an essential part of many multi variable methods

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Numerical Analysis and Optimization Grégoire Allaire,2007-05-24 Numerical Analysis and Optimization familiarises students with mathematical models PDEs and methods of numerical solution and optimization Including numerous exercises and examples this is an ideal text for advanced students in Applied Mathematics Engineering Physical Science and Computer Science

Introduction to Methods of Optimization Leon Cooper,David Steinberg,1970

Introduction to Online Convex Optimization, second edition Elad Hazan,2022-09-06 New edition of a graduate level textbook on that focuses on online convex optimization a machine learning framework that views optimization as a process In many practical applications the environment is so complex that it is not feasible to lay out a comprehensive theoretical model and use classical algorithmic theory and or mathematical optimization Introduction to Online Convex Optimization presents a robust machine learning approach that contains elements of mathematical optimization game theory and learning theory an optimization method that learns from experience as more aspects of the problem are observed This view of optimization as a process has led to some spectacular successes in modeling and systems that have become part of our daily lives Based on the Theoretical Machine Learning course taught by the author at Princeton University the second edition of this widely used graduate level text features Thoroughly updated material throughout New chapters on boosting adaptive regret and approachability and expanded exposition on optimization Examples of applications including prediction from expert advice portfolio selection matrix completion and recommendation systems SVM training offered throughout Exercises that guide students in completing parts of proofs

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