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B. D. CRAVEN

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# **Mathematical Programming and Control Theory**

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CHAPMAN AND HALL

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# Mathematical Programming And Control Theory

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## **Mathematical Programming And Control Theory:**

**Mathematical Programming and Control Theory** Bruce Desmond Craven, 1978 Mathematical Programming and Control Theory B. D. Craven, 1978-10-12 In a mathematical programming problem an optimum maximum or minimum of a function is sought subject to constraints on the values of the variables In the quarter century since G B Dantzig introduced the simplex method for linear programming many real world problems have been modelled in mathematical programming terms Such problems often arise in economic planning such as scheduling industrial production or transportation but various other problems such as the optimal control of an interplanetary rocket are of similar kind Often the problems involve nonlinear functions and so need methods more general than linear programming This book presents a unified theory of nonlinear mathematical programming The same methods and concepts apply equally to nonlinear programming problems with a finite number of variables and to optimal control problems with e g a continuous curve i e infinitely many variables The underlying ideas of vector space convex cone and separating hyperplane are the same whether the dimension is finite or infinite and infinite dimension makes very little difference to the proofs Duality theory the various nonlinear generalizations of the well known duality theorem of linear programming is found relevant also to optimal control and the PREFACE

Pontryagin theory for optimal control also illuminates finite dimensional problems The theory is simplified and its applicability extended by using the geometric concept of convex cones in place of coordinate inequalities **Mathematical Programming and Control Theory** B. D. Craven, 2012-12-06 In a mathematical programming problem an optimum maximum or minimum of a function is sought subject to constraints on the values of the variables In the quarter century since G B Dantzig introduced the simplex method for linear programming many real world problems have been modelled in mathematical programming terms Such problems often arise in economic planning such as scheduling industrial production or transportation but various other problems such as the optimal control of an interplanetary rocket are of similar kind Often the problems involve nonlinear functions and so need methods more general than linear programming This book presents a unified theory of nonlinear mathematical programming The same methods and concepts apply equally to nonlinear programming problems with a finite number of variables and to optimal control problems with e g a continuous curve i e infinitely many variables The underlying ideas of vector space convex cone and separating hyperplane are the same whether the dimension is finite or infinite and infinite dimension makes very little difference to the proofs Duality theory the various nonlinear generalizations of the well known duality theorem of linear programming is found relevant also to optimal control and the PREFACE Pontryagin theory for optimal control also illuminates finite dimensional problems The theory is simplified and its applicability extended by using the geometric concept of convex cones in place of coordinate inequalities

**Mathematical Programming and Optimal Control Theory** Richard M. Van Slyke, CALIFORNIA UNIV BERKELEY OPERATIONS RESEARCH CENTER., 1968 Let  $K$  be a closed convex set in  $E^m$  and  $L \subset P \subset P_0 \subset P_m \subset P_1$

$P_2$   $P_m$  0 Then for the simple problem Minimize  $P_0$  Subject to  $P_0$   $P_1$   $P_m$   $\epsilon$  the intersection of  $K$  and  $L$  we prove a duality theorem and the convergence of a solution algorithm modeled on the duality theorem and the simplex method of linear programming respectively Specialization of this general model to linear programming convex programming generalized programming control theory and the decomposition approach to mathematical programming yield the appropriate duality theorems and solution algorithms in each case Author Mathematical Programming and Optimal Control Theory [microform] Anqing Xing,1988 **Control Theory Methods for the Solution of Mathematical Programming Problems** Massimo Actis Dato,1971 Mathematical Control Theory W.A. Coppel,2006-11-15

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applied to business management problems developed from their research and classroom instruction Sethi and Thompson have provided management science and economics communities with a thoroughly revised edition of their classic text on Optimal Control Theory The new edition has been completely refined with careful attention to the text and graphic material presentation Chapters cover a range of topics including finance production and inventory problems marketing problems machine maintenance and replacement problems of optimal consumption of natural resources and applications of control theory to economics The book contains new results that were not available when the first edition was published as well as an expansion of the material on stochastic optimal control theory

Introduction to Optimal Control Theory Jack Macki, Aaron Strauss, 2012-12-06 This monograph is an introduction to optimal control theory for systems governed by vector ordinary differential equations It is not intended as a state of the art handbook for researchers We have tried to keep two types of reader in mind 1 mathematicians graduate students and advanced undergraduates in mathematics who want a concise introduction to a field which contains nontrivial interesting applications of mathematics for example weak convergence convexity and the theory of ordinary differential equations 2 economists applied scientists and engineers who want to understand some of the mathematical foundations of optimal control theory In general we have emphasized motivation and explanation avoiding the definition axiom theorem proof approach We make use of a large number of examples especially one simple canonical example which we carry through the entire book In proving theorems we often just prove the simplest case then state the more general results which can be proved Many of the more difficult topics are discussed in the Notes sections at the end of chapters and several major proofs are in the Appendices We feel that a solid understanding of basic facts is best attained by at first avoiding excessive generality We have not tried to give an exhaustive list of references preferring to refer the reader to existing books or papers with extensive bibliographies References are given by author's name and the year of publication e.g. Waltman 1974

**Optimal Control Theory** Zhongjing Ma, Suli Zou, 2021-01-30 This book focuses on how to implement optimal control problems via the variational method It studies how to implement the extrema of functional by applying the variational method and covers the extrema of functional with different boundary conditions involving multiple functions and with certain constraints etc It gives the necessary and sufficient condition for the continuous time optimal control solution via the variational method solves the optimal control problems with different boundary conditions analyzes the linear quadratic regulator tracking problems respectively in detail and provides the solution of optimal control problems with state constraints by applying the Pontryagin's minimum principle which is developed based upon the calculus of variations And the developed results are applied to implement several classes of popular optimal control problems and say minimum time minimum fuel and minimum energy problems and so on As another key branch of optimal control methods it also presents how to solve the optimal control problems via dynamic programming and discusses the relationship between the variational method and dynamic programming for comparison Concerning the system involving individual agents it is also

worth to study how to implement the decentralized solution for the underlying optimal control problems in the framework of differential games The equilibrium is implemented by applying both Pontryagin's minimum principle and dynamic programming The book also analyzes the discrete time version for all the above materials as well since the discrete time optimal control problems are very popular in many fields Approaches to the Theory of Optimization J. P.

Ponstein, 2004-06-03 A concise account which finds the optimal solution to mathematical problems arising in economics engineering the social and mathematical sciences **Introduction to the Mathematical Theory of Control Processes:**

**Nonlinear Processes v. 2** Bellman, 1971-04-20 Introduction to the Mathematical Theory of Control Processes Nonlinear Processes v 2 *Optimal Control Theory and its Applications* B. J. Kirby, 2013-03-08 This work in two parts Lecture Notes in

Economics and Mathematical Systems Volume 105 and 106 constitutes the Proceedings of the Fourteenth Biennial Seminar of the Canadian Mathematical Congress which was held from August 12 to August 25 1973 at the University of Western Ontario London Ontario The Canadian Mathematical Congress has held Biennial Seminars since 197 and these have covered a wide range of topics The Seminar reported in this publication was concerned with Optimal Control Theory and its Applications a subject chosen for its active growth and its wide implications for other fields Both these aspects are exemplified in these Proceedings Some lectures provided excellent surveys of particular fields whereas others concentrated on the presentation of new results There were six distinguished Principal Lecturers H T Banks A R Dobell H Halkin J L Lions R M Thrall and W M Wonham all of whom gave five to ten lectures during the two weeks of the Seminar Except for Dr Dobell's these will all be found in Volume 105 Besides the Principal Lecturers there were three Guest Lecturers M C Delfour V Jurdjevic and S P Sethi who presented substantial bodies of material in two or three lectures and which are included in Volume 106 Many of the participants also spoke and reports of most of these have also been included Volume 106

*Stochastic Processes, Optimization, and Control Theory: Applications in Financial Engineering, Queueing Networks, and Manufacturing Systems* Houmin Yan, G. George Yin, Qing Zhang, 2006-09-10 This edited volume contains 16 research articles It presents recent and pressing issues in stochastic processes control theory differential games optimization and their applications in finance manufacturing queueing networks and climate control One of the salient features is that the book is highly multi disciplinary The book is dedicated to Professor Suresh Sethi on the occasion of his 60th birthday in view of his distinguished career *Differential Equations And Control Theory* Sergiu Aizicovici, Nicolae H. Pavel, 2001-10-02 Provides comprehensive coverage of the most recent developments in the theory of non Archimedean pseudo differential equations and its application to stochastics and mathematical physics offering current methods of construction for stochastic processes in the field of p adic numbers and related structures Develops a new theory for parabolic equations over non Archimedean fields in relation to Markov processes *Socio-Technical Networks* Fei Hu, Ali Mostashari, Jiang Xie, 2010-11-17 While there are sporadic journal articles on socio technical networks there's long been a need for an integrated resource that addresses

concrete socio technical network STN design issues from algorithmic and engineering perspectives Filling this need Socio Technical Networks Science and Engineering Design provides a complete introduction to *Optimization—Theory and Applications* L. Cesari, 2012-12-06 This book has grown out of lectures and courses in calculus of variations and optimization taught for many years at the University of Michigan to graduate students at various stages of their careers and always to a mixed audience of students in mathematics and engineering It attempts to present a balanced view of the subject giving some emphasis to its connections with the classical theory and to a number of those problems of economics and engineering which have motivated so many of the present developments as well as presenting aspects of the current theory particularly value theory and existence theorems However the presentation of the theory is connected to and accompanied by many concrete problems of optimization classical and modern some more technical and some less so some discussed in detail and some only sketched or proposed as exercises No single part of the subject such as the existence theorems or the more traditional approach based on necessary conditions and on sufficient conditions or the more recent one based on value function theory can give a sufficient representation of the whole subject This holds particularly for the existence theorems some of which have been conceived to apply to certain large classes of problems of optimization For all these reasons it is essential to present many examples Chapters 3 and 6 before the existence theorems Chapters 9 and 11 16 and to investigate these examples by means of the usual necessary conditions sufficient conditions and value function theory

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