Lecture Notes in
Operations Research and
Mathematical Systems
Economics, Computer Science, Information and Control

Edited by M. Beckmann, Providence and H. P. Künzi, Zürich

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H. A. Nour Eldin

Optimierung linearer Regelsysteme mit quadratischer Zielfunktion

Springer-Verlag
Berlin · Heidelberg · New York

Optimierung Linearer Regelsysteme Mit Qu

H.D. Sherali,C.M. Shetty

Optimierung Linearer Regelsysteme Mit Qu:

Optimierung linearer Regelsysteme mit quadratischer Zielfunktion H.A. Nour Eldin,2013-03-13 Diese Arbeit befasst sich mit der Steuerung bzw Regelung von linear en Regelsystemen mit quadratischer Zielfunktion Das lineare Regelsystem kann durch gewehnliche Differential gleichung Differential Differenzengleichungen Differenzen gleichung oder partielle Differentialgleichungen beschrieben werden Der Zustandsvektor oder der Steuervektor kann be schrankt sein Mit einer direkten Optimierungsmehtode welche einen stufen fermigen Steuervektor verwendet wurde gezeigt dass die Lesung fur Betragsbeschrankungen eine quadratische Program mierungsaufgabe ist Fur andere Formen der Restriktionen wird die Lesung eine nichtlin2are Programmierungsaufgabe sein Falls keine Restriktionen vorhanden sind wird die Lesung eine lineare Ruckflihrung mit variablen Ruckfuhrungs koeffizienten sein Die Vorteile der vorgeschlagenen Optimierungsmethode werden hier kurz zusammengefasst 1 Die Optimierung fur Zielfunktionen mit R t 0 kann durchgefuhrt werden Dies bedeutet dass man eine gressere Klasse von Regelungsproblemen behandeln kann als dies bis jetzt der Fall ist In vielen praktischen Anwendungen war die Einfuhrung einer Gewichtsfunktion fur die Steuergresse nur eine mathematische Notwendig keit damit die Variationsmethoden verwendet werden Die Befrehmg von solchem Zwang bedeutet eine bes sere Anpassung des mathematischen Modells an die Wirklichkeit 2 Die Matrizen welche in der Programmierungsaufgabe vorhanden sind kennen direkt aus der Regelstrecke gemessen werden Man ist damit in der Lage die Opti mierung von Regelstrecken welche nicht explizit 15 durch Differentialgleichungen beschrieben sind durch zuftihren Mit den vorherigen Methoden war man immer gezwungen die Regelstrecke zuerst zu identifizieren Das ist aber ein schwieriges Problem welches oft nicht losbar ist Aus serdem wissen wir keine brauchbare Methode zur Identi fizierung von Regelstrecken mit Totzeiten oder gemisch ten Differentialgleichungen **Optimization with Disjunctive Constraints** H.D. Sherali,C.M. Shetty,2012-12-06 The disjunctive cut principle of Balas and Jeroslow and the related polyhedral annexation principle of Glover provide new insights into cutting plane theory This has resulted in its ability to not only subsume many known valid cuts but also improve upon them Originally a set of notes were written for the purpose of putting together in a common terminology and framework significant results of Glover and others using a geometric approach referred to in the literature as convexity cuts and the algebraic approach of Balas and Jeroslow known as Disjunctive cuts As it turned out subsequently the polyhedral annexation approach of Glover is also closely connected with the basic disjunctive principle of Balas and Jeroslow In this monograph we have included these results and have also added several published results which seem to be of strong interest to researchers in the area of developing strong cuts for disjunctive programs In particular several results due to Balas 4 5 6 7 Glover 18 19 and Jeroslow 23 25 26 have been used in this monograph The appropriate theorems are given without proof The notes also include several results yet to be published 32 34 35 obtained under a research contract with the National Science Foundation to investigate solution methods for disjunctive programs The monograph is self contained and complete in the sense that it

attempts to pool together existing results which the authors viewed as important to future research on optimization using the disjunctive cut approach **Optimal Spatial Interaction and the Gravity Model** Sven Svenaeus,2012-12-06 This book has grown out of a desire to explore the possibilities of using optimizing models in transportation planning This approach has been followed throughout Models which combine descriptive and optimizing elements are not treated The gravity model is here studied as the solution to an optimizing model In spite of this approach much of the material shoula be of general interest Algorithms are not discussed The author has benefited from discussions with many colleagues M Florian suggested the term interacti vi ty N F Stewart and P Smeds gave many valu able comments on a first draft M Beckmann made me think once more about the final chapters R Grubbstrem and K Jornsten helped clarifYing some things in the same chapters Remaining insufficiencies are due to the author Gun Mannervik typed with great patience Linkoping in October 1979 Sven Erlander ABSTRACT The book proposes extended use of optimizing models in transportation plann ing An entropy constrained linear program for the trip distribution problem is formulated and shown to have the ordinarJ doubly constrained gravity model as its solution Entropy is here used as a measure of interactivity which is constrained to be at a prescribed level In this way the variation present in the reference trip matrix is preserved The properties of entropy as a dispersion measure are shortly discussed The detailed mathematics of the optimal solutions as well as of sensitivity and duality are given **Economic Theory of Public Enterprise** D. Bös,2012-12-06 **Theory and Estimation of Macroeconomic Rationing Models** H.R. Sneessens,2012-12-06 Introducing his book The Theory of UnemPloyment Reconsidered Professor Malinvaud expressed several years ago his hope to convey his strong belief that the reconsideration is a major step in the development of our science In view of the stimulating effect this approach has on economic research it seems now that many economists do indeed share Malinvaud s belief and are ready to devote their time and their skill to ensure the realization of that progress This book grown out of a Ph D thesis presented at the Universit Catholique de Louvain aims at contributing in its own way to that venture Looking towards econometric applications it illustrates that a framework h la Malinvaud i e based on the theory of temporary equilibrium with rationing provides the means of improving macro econometric modelling There has been so far a wide and pervasive fear that despite its analytical and theoretical usefulness the quantity rationing approach would be much too complex to be successfully implemented into econometric models The research the interested reader will discover in the subsequent pages should convince him that the difficulty faced by econometricians is essentially I am tempted to say merely one of developing an adequate methodology it should thus disappear once is made the initial research investment The empirical results presented towards the end of the book though prelim inary already suggests that the effort is rewarding and should be continued My debts are many **Test Examples for Nonlinear Programming Codes** W. Hock,Klaus Schittkowski,2012-12-06 The performance of a nonlinear programming algorithm can only be ascertained by numerical experiments requiring the collection and implementation of test examples in dependence upon the

desired performance criterium This book should be considered as an assis tance for a test designer since it presents an extensive collec tion of nonlinear programming problems which have been used in the past to test or compare optimization programs He will be in formed about the optimal solution about the structure of the problem in the neighbourhood of the solution and in addition about the usage of the corresp onding FORTRAN subroutines if he is interested in obtaining them ofi a magnetic tape Chapter I shows how the test examples are documented In par ticular the evaluation of computable information about the solu tion of a problem is outlined It is explained how the optimal solution the optimal Lagrange multipliers and the condition number of the projected Hessian of the Lagrangian are obtained Furthermore a classification number is defined allowing a formal description of a test problem and the documentation scheme is described which is used in Chapter IV to present the problems *Optimal Decisions under Uncertainty* J.K. Sengupta,2012-12-06 The theory of optimal decisions in a stochastic environment has seen many new developments in recent years The implications of such theory for empirical and policy applications are several This book attempts to analyze some of the impor tant applied aspects of this theory and its recent developments The stochastic environment is considered here in specific form e g a linear programs LP with parameters subject to a probabilistic mechanism b decision models with risk aversion c resource allocation in a team and d national economic planning The book attempts to provide new research insights into several areas e g a mixed strategy solutions and econometric tests of hypotheses of LP models b the dual problems of efficient estimation and optimal regulation c input output planning under imperfect competition and d linear programs viewed as constrained statistical games Methods of optimal decision rules developed here for quadratic and linear decision problems are applicable in three broad areas a applied economic models in resource allocation planning and team decision b operations research models in management decisions involving portfolio analysis and stochastic programming and c systems science models in stochastic control and adaptive behavior Some results reported here have been published in professional journals be fore and I would like to thank the following journals in particular Inter national Journal of Systems Science Journal of Optimization Theory and Applica tions and Journal of Mathematical Analysis and Applications Robust Methods and Asymptotic Theory in Nonlinear Econometrics H. J. Bierens,2012-12-06 This Lecture Note deals with asymptotic properties i e weak and strong consistency and asymptotic normality of parameter estimators of nonlinear regression models and nonlinear structural equations under various assumptions on the distribution of the data The estimation methods involved are nonlinear least squares estimation NLLSE nonlinear robust M estimation NLRME and non linear weighted robust M estimation NLWRME for the regression case and nonlinear two stage least squares estimation NL2SLSE and a new method called minimum information estimation MIE for the case of structural equations The asymptotic properties of the NLLSE and the two robust M estimation methods are derived from further elaborations of results of Jennrich Special attention is payed to the comparison of the asymptotic efficiency of NLLSE and NLRME It is shown that if the tails of the error distribution are fatter

than those of the normal distribution NLRME is more efficient than NLLSE The NLWRME method is appropriate if the distributions of both the errors and the regressors have fat tails This study also improves and extends the NL2SLSE theory of Amemiya The method involved is a variant of the instrumental variables method requiring at least as many instrumental variables as parameters to be estimated The new MIE method requires less instrumental variables Asymptotic normality can be derived by employing only one instrumental variable and consistency can even be proved with out using any instrumental variables at all Barriers to Entry C.C.v. Weizsäcker,2012-12-06 I was originally induced to think about barriers to entry by some re search done for Charles River Associates Inc Boston on behalf of their client IBM Corporation Armonk N Y After the end of this re search project I continued to work on entry barriers and related is sues of market structure The results of this effort are reported here What I present is not a book in the traditional sense of the word Due to other research and administrative obligations I could not without substantial delay present a more finished product The rapid progress in the field of industrial organisation theory made me fear that my results could become obsolete if I further waited with their publica tion I hope that the early presentation of a progress report rather than a much later publication of a finished product is not only in my interest but also in the interest of economics **Extremal Methods and Systems Analysis** A. V. Fiacco,K. O. Kortanek,2012-12-06 The papers appearing in this Volume were selected from a collec tion of papers presented at the Internationa Symposium on Extrema Methods and Systems Ana ysis on the Occasion of Professor A Charnes 60th Birthday at the University of Texas in Austin 13 15 September 1977 As coeditors we have followed the normal editorial procedures of scholarly journals We have obtained invaluable assistance from a number of colleagues who essentially performed the duties of associate editors coordinating most of the reviews All papers except those appearing in the Historica Perspectives section were refereed by at least two individuals with competency in the respective area Because of the wide range and diversity of the topics it would have been im possible for us to make a consistently rational selection of papers without the help of the associate editors and referees We are indeed grateful to them The breadth of extremal methods and systems analysis suggested by the range of topics covered in these papers is characteristic of the field and also of the scholarly work of Professor Charnes Extre mal methods and systems analysis has been a pioneering and systematic approach to the development and application of new scientific theories and methods for problems of management and operations in both the pri vate and public sectors spanning all major disciplines from economics to engineering **Organizations: Multiple Agents with Multiple Criteria** J.N. Morse,2012-12-06 The Fourth International MCDM Conference follows a tradition that began with an exploratory gathering at the University of South Carolina in 1973 The First International Conference was held in Jouy en Josas in 1975 The second and third were held in Buffalo 1977 and KOnigswinter 1979 We are grateful to the Office of Naval Research for years of advice and funding and to Springer Verlag for providing a widely dispersed series of proceedings volumes In the case of the Delaware Conference we gratefully acknowledge new support from the corporate

sector coordinated by the University of Delaware s Development Office Now that I have attended to the formal recognitions I wish to place my recollection of the human side of the conference into the record This is justi fiable because multiple criteria problem solving has been nurtured by a close knit group of people whose interactions are not fully captured by the standard journal format This was the conference in which an animated discussion between Dave Bell and Paul Schoemaker caused Mathilde Stephenson to stand up and say Don t stop it this is the best part of the conference Another sort of moment occurred when Lucas Pun was asked to explain a certain Chinese character in one of his transpar encies He replied No alcohol allowed From Erick Duesing speaking with an historical perspective we had the insight that multiple criteria methods lan guished because McCarthyism had made planning suspect **Multiple Criteria Decision Making Theory and Application** G. Fandel,T. Gal,2012-12-06 He consider a cone dominance problem given a preference cone lP and a set n X R of available or feasible alternatives the problem is to identify the non dominated elements of X The nonzero elements of lP are assumed to model the do nance structure of the problem so that y s X dominates x s X if Y x P for some nonzero p S lP Consequently x S X is nondominated if and only if x lP n X x 1 1 He will also refer to nondominated points as efficient points in X with respect to lP and we will let EF XJP denote the set of such efficient points This cone dominance problem draws its roots from two separate but related ori gins The first of these is multi attribute decision making in which the elements of the set X are endowed with various attributes each to be maximized or minimized **Multiple Attribute Decision Making** Ching-Lai Hwang,Kwangsun Yoon,2012-12-06 This mono graph is intended for an advanced undergraduate or graduate course as weIl as for the researchers who want a compilation of developments in this rapidly growing field of operations research This is a sequel to our previous work entitled Multiple Objective Decision Making Methods and Applications A State of the Art Survey No 164 of the Lecture Notes The literature on methods and applications of Multiple Attribute Decision Making MADM has been reviewed and classified systematically This study provides readers with a capsule look into the existing methods their char acteristics and applicability to analysis of MADM problems The basic MADM concepts are defined and a standard notation is introduced in Part 11 Also introduced are foundations such as models for MADM trans formation of attributes fuzzy decision rules and methods for assessing weight A system of classifying seventeen major MADM methods is presented These methods have been proposed by researchers in diversified disciplines half of them are classical ones but the other half have appeared recently The basic concept the computational procedure and the characteristics of each of these methods are presented concisely in Part 111 The computational procedure of each method is illustrated by solving a simple numerical example Part IV of the survey deals with the applications of these MADM methods

Multivariable Technological Systems D.P. Atherton,2014-06-28 Recent results in the development and application of analysis and design techniques for the control of multivariable systems are discussed in this volume **Extreme Games and Their Solutions** J. Rosenmüller,2012-12-06 *Foundations of Optimization* M. S. Bazaraa,C. M. Shetty,2012-12-06

Current1y there is a vast amount of literature on nonlinear programming in finite dimensions The pub1ications deal with convex analysis and severa1 aspects of optimization On the conditions of optima1ity they deal mainly with generali tions of known results to more general problems and also with less restrictive assumptions There are also more general results dealing with duality There are yet other important publications dealing with algorithmic deve10pment and their applications This book is intended for researchers in nonlinear programming and deals mainly with convex analysis optimality conditions and duality in nonlinear programming It consolidates the classic results in this area and some of the recent results The book has been divided into two parts The first part gives a very comp hensive background material Assuming a background of matrix algebra and a senior level course in Analysis the first part on convex analysis is self contained and develops some important results needed for subsequent chapters The second part deals with optimality conditions and duality The results are developed using extensively the properties of cones discussed in the first part This has faci tated derivations of optimality conditions for equality and inequality constrained problems Further minimum principle type conditions are derived under less restrictive assumptions We also discuss constraint qualifications and treat some of the more general duality theory in nonlinear programming Linear vibrations P.C. Müller,Werner Schiehlen,2012-12-06 In the last decade the development in vibration analysis was char acterized by increasing demands on precision and by the growing use of electronic computers At present improvements in precision are obtained by a more accurate modelling of technical systems Thus for instance a system with one degree of freedom is often not accepted as it used to be as a model for vibration analysis in mechanical engineering As a rule vehicles and machines have to be modelled as systems with many degrees of freedom such as multibody systems finite element systems or con tinua The mathematical description of multi degree of freedom systems leads to matrix representations of the corresponding equations These are then conveniently analyzed by means of electronic computers that is by the analog computer and especially by the digital machine Hence there exists a mutually stimulating interaction between the growing require ments and the increasing computational facilities The present book deals with linear vibration analysis of technical systems with many degrees of freedom in a form allowing the use of computers for finding solutions Part I begins with the classification of vibrating systems The main characteristics here are the kind of differential equation the time depen dence of the coefficients and the attributes of the exciting process Next it is shown by giving examples involving mechanical vibrating systems how to set up equations of motion and how to transform these into state equations Proceedings of the ... Congress of the International Council of the Aeronautical Sciences International Council of the Aeronautical Sciences. Congress, **Optimal Spatial Interaction and the Gravity Model** Sven Erlander,1980-02 This book has grown out of a desire to explore the possibilities of using optimizing models in transportation planning This approach has been followed throughout Models which combine descriptive and optimizing elements are not treated The gravity model is here studied as the solution to an optimizing model In spite of this approach much of the material shoula be

of general interest Algorithms are not discussed The author has benefited from discussions with many colleagues M Florian suggested the term interacti vi ty N F Stewart and P Smeds gave many valu able comments on a first draft M Beckmann made me think once more about the final chapters R Grubbstrem and K Jornsten helped clarifYing some things in the same chapters Remaining insufficiencies are due to the author Gun Mannervik typed with great patience Linkoping in October 1979 Sven Erlander ABSTRACT The book proposes extended use of optimizing models in transportation plann ing An entropy constrained linear program for the trip distribution problem is formulated and shown to have the ordinarJ doubly constrained gravity model as its solution Entropy is here used as a measure of interactivity which is constrained to be at a prescribed level In this way the variation present in the reference trip matrix is preserved The properties of entropy as a dispersion measure are shortly discussed The detailed mathematics of the optimal solutions as well as of sensitivity and duality are given **Laws of Diminishing Returns** Rolf Färe,1980-02-28 Diminishing Returns is a concept deeply rooted in economic thought After being introduced by Turgot in 1767 it has become accepted as one of the cornerstones of contemporary economic theory My interest in this area started in the fall semester of 1971 at U C Berkeley where I was enrolled in Professor Ronald W Shephard s class on the theory of production Shephard introduced me to his work on the Law of Diminishing Returns and encouraged me to continue that work This monograph is a result of my inspiring experience with Professor Shephard and I am sincerely grateful to him for everything he has taught me In developing some of the materials in this monograph I have collabo rated with my Swedish friends Leif Jansson and Leif Svensson It has been a pleasure to work with such capable individuals For reading and making suggestions on a preliminary version of the monograph thanks are due to W Eichhorn R Kirk and R Sato and of course to my SIu friends Shawna Grosskopf and Dan Primont I would also like to gratefully acknowledge the support received from a Stiftelsen Siamon grant Lastbut not least special thanks are given to Claudia Striegel for her care and patience in typing this manuscript Rolf Fare October 1979 Carbondale Illinois TABLE OF CONTENTS Page CHAPTER 1 DIMINISHING RETURNS 1 1 1 Introduction 1 2 Restrictions of the Study 3 1 3 Outline of the Monograph 4 CHAPTER 2 THE PRODUCTION TECHNOLOGY 5 2 1 Introduction

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