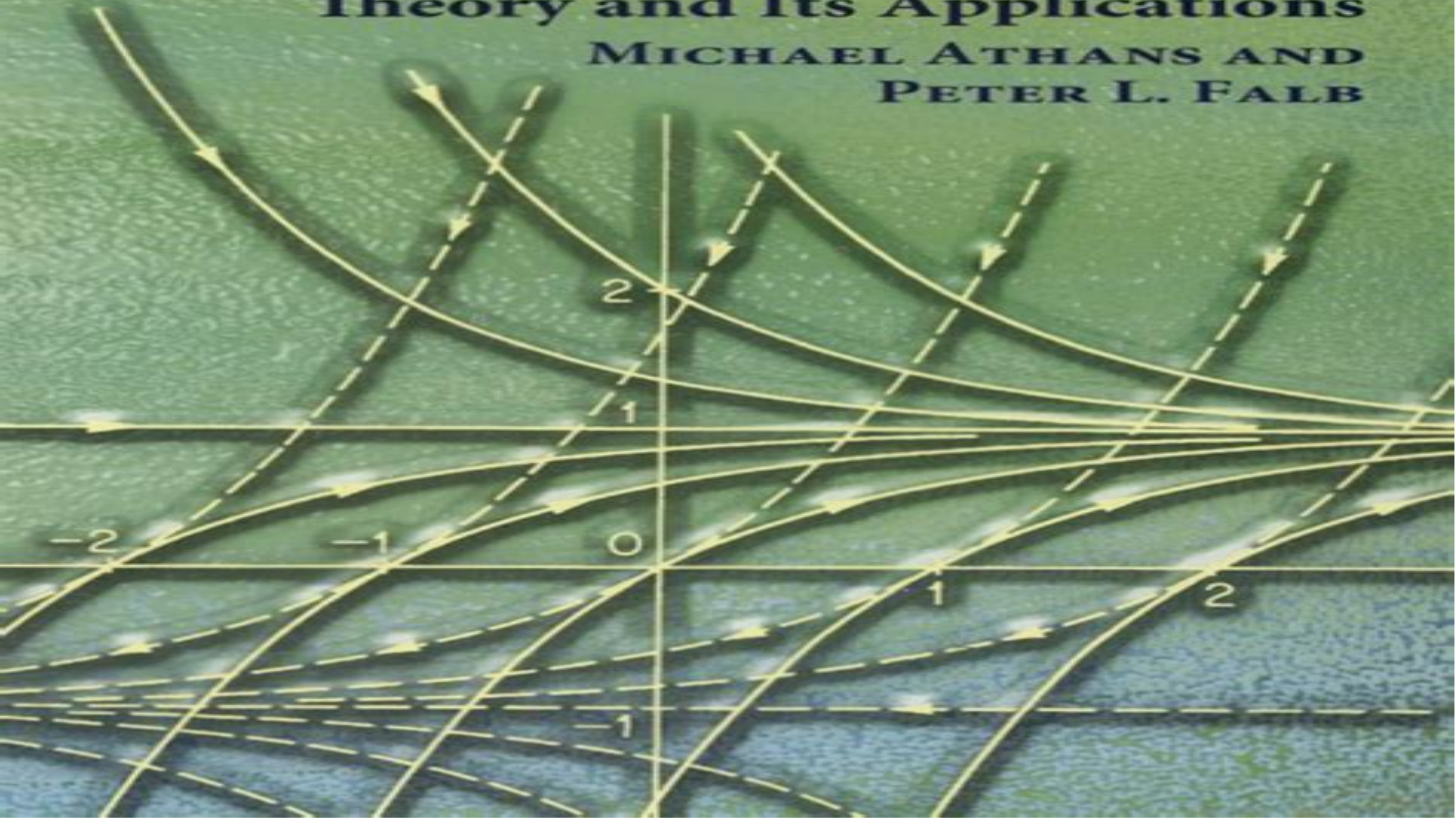# OPTIMAL CONTROL

An Introduction to the Theory and Its Applications

MICHAEL ATHANS AND
PETER L. FALB

Optimal Control With Engineering Applications

Zoran Gajic,Myo-Taeg Lim,Dobrila Skataric,Wu-Chung Su,Vojislav Kecman

Optimal Control With Engineering Applications:

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   Optimal Control Michael Athans,Peter L. Falb,2013-04-26 Geared toward advanced undergraduate and graduate engineering students this text introduces the theory and applications of optimal control It serves as a bridge to the technical literature enabling students to evaluate the implications of theoretical control work and to judge the merits of papers on the subject Rather than presenting an exhaustive treatise Optimal Control offers a detailed introduction that fosters careful thinking and disciplined intuition It develops the basic mathematical background with a coherent formulation of the control problem and discussions of the necessary conditions for optimality based on the maximum principle of Pontryagin In depth examinations cover applications of the theory to minimum time minimum fuel and to quadratic criteria problems The structure properties and engineering realizations of several optimal feedback control systems also receive attention Special features include numerous specific problems carried through to engineering realization in block diagram form The text treats almost all current examples of control problems that permit analytic solutions and its unified approach makes frequent use of geometric ideas to encourage students intuition   **Optimal Control Theory for Applications** David G. Hull,2013-03-09 Mechanical engineering an engineering discipline born of the needs of the in dustrial revolution is once again asked to do its substantial share in the call for industrial renewal The general call is urgent as we face profound issues of productivity and competitiveness that require engineering solutions among others The Mechanical Engineering Series is a series featuring graduate texts and research monographs intended to address the need for information in con temporary areas of mechanical engineering The series is conceived as a comprehensive one that covers a broad range of concentrations important to mechanical engineering graduate education and research We are fortunate to have a distinguished roster of consulting editors each an expert in one of the areas of concentration The names of the consulting editors are listed on page ii of this volume The areas of concentration are applied mathematics biomechanics computational mechanics dynamic systems and control energetics mechanics of materials processing thermal science and tribology Austin Texas Frederick F Ling Preface

Optimization is an area of mathematics that is concerned with finding the best points curves surfaces and so on Best is determined by minimizing some measure of performance subject to equality and inequality constraints Points are constrained by algebraic equations curves are constrained by or dinary differential equations and algebraic equations surfaces are constrained by partial differential equations ordinary differential equations and algebraic equations **Optimal Control with Aerospace Applications** James M Longuski,José J. Guzmán,John E. Prussing,2013-11-04 Want to know not just what makes rockets go up but how to do it optimally Optimal control theory has become such an important field in aerospace engineering that no graduate student or practicing engineer can afford to be without a working knowledge of it This is the first book that begins from scratch to teach the reader the basic principles of the calculus of variations develop the necessary conditions step by step and introduce the elementary computational techniques of optimal control This book with problems and an online solution manual provides the graduate level reader with enough introductory knowledge so that he or she can not only read the literature and study the next level textbook but can also apply the theory to find optimal solutions in practice No more is needed than the usual background of an undergraduate engineering science or mathematics program namely calculus differential equations and numerical integration Although finding optimal solutions for these problems is a complex process involving the calculus of variations the authors carefully lay out step by step the most important theorems and concepts Numerous examples are worked to demonstrate how to apply the theories to everything from classical problems e g crossing a river in minimum time to engineering problems e g minimum fuel launch of a satellite Throughout the book use is made of the time optimal launch of a satellite into orbit as an important case study with detailed analysis of two examples launch from the Moon and launch from Earth For launching into the field of optimal solutions look no further

Optimal Control Zoran Gajic,Myo-Taeg Lim,Dobrila Skataric,Wu-Chung Su,Vojislav Kecman,2018-10-03 Unique in scope Optimal Control Weakly Coupled Systems and Applications provides complete coverage of modern linear bilinear and nonlinear optimal control algorithms for both continuous time and discrete time weakly coupled systems using deterministic as well as stochastic formulations This book presents numerous applications to real world systems from various industries including aerospace and discusses the design of subsystem level optimal filters Organized into independent chapters for easy access to the material this text also contains several case studies examples exercises computer assignments and formulations of research problems to help instructors and students **Nonlinear Approaches in Engineering Application** Liming Dai,Reza N. Jazar,2022-04-27 Nonlinear Approaches in Engineering Applications Design Engineering Problems examines the latest applications of nonlinear approaches in engineering and addresses a range of scientific problems Chapters are authored by world class scientists and researchers and focus on the application of nonlinear approaches in different disciplines of engineering and scientific applications with a strong emphasis on application physical meaning and methodologies of the approaches Topics covered are of high interest in engineering and physics and an attempt has been

made to expose engineers and researchers to a broad range of practical topics and approaches This book is appropriate for researchers students and practicing engineers who are interested in the applications of engineering physics and mathematics in nonlinear approaches to solving engineering and science problems **Optimal Control for Chemical Engineers** Simant Ranjan Upreti,2016-04-19 This self contained book gives a detailed treatment of optimal control theory that enables readers to formulate and solve optimal control problems With a strong emphasis on problem solving it provides all the necessary mathematical analyses and derivations of important results including multiplier theorems and Pontryagin s principle The text presents various examples and basic concepts of optimal control and describes important numerical methods and computational algorithms for solving a wide range of optimal control problems including periodic processes *Industrial And Engineering Applications Of Artificial Intelligence And Expert Systems* Moonis Ali,M. Ali,1988-08 **Adaptive Stochastic Optimization Techniques with Applications** James A. Momoh,2015-12-02 Adaptive Stochastic Optimization Techniques with Applications provides a single convenient source for state of the art information on optimization techniques used to solve problems with adaptive dynamic and stochastic features Presenting modern advances in static and dynamic optimization decision analysis intelligent systems evolutionary pro **Optimal Control Applications in Electric Power Systems** G.S. Christensen,M.E. El-Hawary,S.A. Soliman,2013-11-21 Significant advances in the field of optimal control have been made over the past few decades These advances have been well documented in numerous fine publications and have motivated a number of innovations in electric power system engineering but they have not yet been collected in book form Our purpose in writing this book is to provide a description of some of the applications of optimal control techniques to practical power system problems The book is designed for advanced undergraduate courses in electric power systems as well as graduate courses in electrical engineering applied mathematics and industrial engineering It is also intended as a self study aid for practicing personnel involved in the planning and operation of electric power systems for utilities manufacturers and consulting and government regulatory agencies The book consists of seven chapters It begins with an introductory chapter that briefly reviews the history of optimal control and its power system applications and also provides an outline of the text The second chapter is entitled Some Optimal Control Techniques its intent is to introduce fundamental concepts of optimal control theory that are relevant to the applications treated in the following chapters Emphasis is given to clear methodical development rather than rigorous formal proofs Topics discussed include variational calculus Pontryagin s maximum principle and geometric methods employing functional analysis A number of solved examples are included to illustrate the techniques *Optimization of Human Cancer Radiotherapy* G.W. Swan,2013-03-08 The mathematical models in this book are concerned with a variety of approaches to the manner in which the clinical radiologic treatment of human neoplasms can be improved These improvements comprise ways of delivering radiation to the malignancies so as to create considerable damage to tumor cells while sparing neighboring normal tissues There is no unique way of

dealing with these improvements Accord ingly in this book a number of different presentations are given Each presentation has as its goal some aspect of the improvement or optimization of radiotherapy This book is a collection of current ideas concerned with the optimization of human cancer radiotherapy It is hoped that readers will build on this collection and develop superior approaches for the understanding of the ways to improve therapy The author owes a special debt of thanks to Kathy Prindle who breezed through the typing of this book with considerable dexterity TABLE OF CONTENTS Chapter GENERAL INTRODUCTION 1 1 Introduction 1 1 2 History of Cancer and its Treatment by Radiotherapy 8 1 3 Some Mathematical Models of Tumor Growth 12 1 4 Spatial Distribution of the Radiation Dose 20 Chapter 2 SURVIVAL CURVES FROM STATISTICAL MODELS 24 2 1 Introduction 24 2 2 The Target Model 26 2 3 Single hit to kill Model 27 2 4 Multitarget Single hit Survival 29 2 5 Multitarget Multihit Survival 31 2 6 Single target Multihit Survival 31 2 *The Art of Nonlinear: Theory and Application in Constrained Optimization* Pasquale De Marco, The Art of Nonlinear Theory and Application in Constrained Optimization provides a comprehensive and up to date treatment of the theory and applications of nonlinear programming a powerful tool for solving a wide range of optimization problems that arise in various fields This book begins with an overview of the basic concepts and definitions of nonlinear programming including constrained optimization problems convex sets and convex functions It then delves into the optimality conditions for nonlinear programming problems including first order and second order conditions as well as duality theory The book also covers a variety of numerical methods for solving nonlinear programming problems including unconstrained optimization methods constrained optimization methods interior point methods and sequential quadratic programming These methods are presented in detail with a focus on their strengths and weaknesses In addition to the theoretical and algorithmic aspects of nonlinear programming the book also explores a wide range of applications of nonlinear programming in various fields including machine learning engineering economics finance and other fields The book provides detailed examples and case studies to illustrate how nonlinear programming can be used to solve real world problems Written in a clear and accessible style this book is intended for a broad audience of readers including students researchers and practitioners in various fields It is assumed that the reader has a basic understanding of linear algebra calculus and probability theory With its comprehensive coverage of the theory and applications of nonlinear programming The Art of Nonlinear is an essential resource for anyone who wants to learn more about this important field of optimization If you like this book write a review Optimization in Control Applications Guillermo Valencia-Palomo,Francisco Ronay López-Estrada,2019-01-10 This book is a printed edition of the Special Issue Optimization in Control Applications that was published in MCA Analysis and Geometry in Control Theory and its Applications Piernicola Bettiol,Piermarco Cannarsa,Giovanni Colombo,Monica Motta,Franco Rampazzo,2015-09-01 Since the 1950s control theory has established itself as a major mathematical discipline particularly suitable for application in a number of research fields including advanced engineering design economics and the medical

sciences However since its emergence there has been a need to rethink and extend fields such as calculus of variations differential geometry and nonsmooth analysis which are closely tied to research on applications Today control theory is a rich source of basic abstract problems arising from applications and provides an important frame of reference for investigating purely mathematical issues In many fields of mathematics the huge and growing scope of activity has been accompanied by fragmentation into a multitude of narrow specialties However outstanding advances are often the result of the quest for unifying themes and a synthesis of different approaches Control theory and its applications are no exception Here the interaction between analysis and geometry has played a crucial role in the evolution of the field This book collects some recent results highlighting geometrical and analytical aspects and the possible connections between them Applications provide the background in the classical spirit of mutual interplay between abstract theory and problem solving practice

Complex System Modelling and Control Through Intelligent Soft Computations Quanmin Zhu,Ahmad Taher Azar,2014-11-29 The book offers a snapshot of the theories and applications of soft computing in the area of complex systems modeling and control It presents the most important findings discussed during the 5th International Conference on Modelling Identification and Control held in Cairo from August 31 September 2 2013 The book consists of twenty nine selected contributions which have been thoroughly reviewed and extended before their inclusion in the volume The different chapters written by active researchers in the field report on both current theories and important applications of soft computing Besides providing the readers with soft computing fundamentals and soft computing based inductive methodologies algorithms the book also discusses key industrial soft computing applications as well as multidisciplinary solutions developed for a variety of purposes like windup control waste management security issues biomedical applications and many others It is a perfect reference guide for graduate students researchers and practitioners in the area of soft computing systems modeling and control **International Joint Conference SOCO'14-CISIS'14-ICEUTE'14** José Gaviria de la Puerta,Iván García Ferreira,Pablo Garcia Bringas,Fanny Klett,Ajith Abraham,André C.P.L.F. de Carvalho,Álvaro Herrero,Bruno Baruque,Héctor Quintián,Emilio Corchado,2014-06-07 This volume of Advances in Intelligent and Soft Computing contains accepted papers presented at SOCO 2014 CISIS 2014 and ICEUTE 2014 all conferences held in the beautiful and historic city of Bilbao Spain in June 2014 Soft computing represents a collection or set of computational techniques in machine learning computer science and some engineering disciplines which investigate simulate and analyze very complex issues and phenomena After a through peer review process the 9th SOCO 2014 International Program Committee selected 31 papers which are published in these conference proceedings In this relevant edition a special emphasis was put on the organization of special sessions One special session was organized related to relevant topics as Soft Computing Methods in Manufacturing and Management Systems The aim of the 7th CISIS 2014 conference is to offer a meeting opportunity for academic and industry related researchers belonging to the various vast communities of Computational Intelligence Information Security and Data Mining

The need for intelligent flexible behaviour by large complex systems especially in mission critical domains is intended to be the catalyst and the aggregation stimulus for the overall event After a through peer review process the CISIS 2014 International Program Committee selected 23 papers and the 5th ICEUTE 2014 International Program Committee selected 2 papers which are published in these conference proceedings as well **Optimal Control of Thermal Systems** Eric André Müller,2006 *Scientific and Technical Aerospace Reports* ,1990 **Current Trends in Mathematical Analysis and Its Interdisciplinary Applications** Hemen Dutta,Ljubiša D. R. Kočinac,Hari M. Srivastava,2019-08-23 This book explores several important aspects of recent developments in the interdisciplinary applications of mathematical analysis MA and highlights how MA is now being employed in many areas of scientific research Each of the 23 carefully reviewed chapters was written by experienced expert s in respective field and will enrich readers understanding of the respective research problems providing them with sufficient background to understand the theories methods and applications discussed The book s main goal is to highlight the latest trends and advances equipping interested readers to pursue further research of their own Given its scope the book will especially benefit graduate and PhD students researchers in the applied sciences educators and engineers with an interest in recent developments in the interdisciplinary applications of mathematical analysis

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