

Optimal Control

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Optimal Control Optimal Control

Michael Athans, Peter L. Falb

Optimal Control **Optimal Control:**

Optimal Control Theory Donald E. Kirk, 2004-01-01 Geared toward upper level undergraduates this text introduces three aspects of optimal control theory dynamic programming Pontryagin's minimum principle and numerical techniques for trajectory optimization Numerous problems which introduce additional topics and illustrate basic concepts appear throughout the text Solution guide available upon request 131 figures 14 tables 1970 edition [Nonlinear and Optimal Control Systems](#) Thomas L. Vincent, Walter J. Grantham, 1997-06-23 Designed for one semester introductory senior or graduate level course the authors provide the student with an introduction of analysis techniques used in the design of nonlinear and optimal feedback control systems There is special emphasis on the fundamental topics of stability controllability and optimality and on the corresponding geometry associated with these topics Each chapter contains several examples and a variety of exercises

Optimal Control by Mathematical Programming Daniel Tabak, Benjamin C.

Kuo, 1971 **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

Introduction to Control Theory, Including Optimal Control David N. Burghes, Alexander Graham, 1980

Optimum Systems Control Andrew P. Sage, Chelsea C.

White, 1977 **Optimal Control** Frank L. Lewis, Draguna Vrabie, Vassilis L. Syrmos, 2012-03-20 A NEW EDITION OF THE CLASSIC TEXT ON OPTIMAL CONTROL THEORY As a superb introductory text and an indispensable reference this new edition of Optimal Control will serve the needs of both the professional engineer and the advanced student in mechanical electrical and aerospace engineering Its coverage encompasses all the fundamental topics as well as the major changes that have occurred in recent years An abundance of computer simulations using MATLAB and relevant Toolboxes is included to give the reader the actual experience of applying the theory to real world situations Major topics covered include Static Optimization Optimal Control of Discrete Time Systems Optimal Control of Continuous Time Systems The Tracking Problem and Other LQR Extensions Final Time Free and Constrained Input Control Dynamic Programming Optimal Control for

Polynomial Systems Output Feedback and Structured Control Robustness and Multivariable Frequency Domain Techniques
Differential Games Reinforcement Learning and Optimal Adaptive Control *Applied Optimal Control* A. E.

Bryson,2018-05-04 This best selling text focuses on the analysis and design of complicated dynamics systems CHOICE called it a high level concise book that could well be used as a reference by engineers applied mathematicians and undergraduates The format is good the presentation clear the diagrams instructive the examples and problems helpful References and a multiple choice examination are included *Solutions Manual for Optimal Control Theory* Suresh P. Sethi,Gerald L.

Thompson,1981-04-30 *Optimal Control Theory* Robert Pallu de La Barrière,1980 *Optimal Control Systems* D.

Subbaram Naidu,2018-10-03 The theory of optimal control systems has grown and flourished since the 1960 s Many texts written on varying levels of sophistication have been published on the subject Yet even those purportedly designed for beginners in the field are often riddled with complex theorems and many treatments fail to include topics that are essential to a thorough grounding in the various aspects of and approaches to optimal control *Optimal Control Systems* provides a comprehensive but accessible treatment of the subject with just the right degree of mathematical rigor to be complete but practical It provides a solid bridge between traditional optimization using the calculus of variations and what is called modern optimal control It also treats both continuous time and discrete time optimal control systems giving students a firm grasp on both methods Among this book s most outstanding features is a summary table that accompanies each topic or problem and includes a statement of the problem with a step by step solution Students will also gain valuable experience in using industry standard MATLAB and SIMULINK software including the Control System and Symbolic Math Toolboxes Diverse applications across fields from power engineering to medicine make a foundation in optimal control systems an essential part of an engineer s background This clear streamlined presentation is ideal for a graduate level course on control systems and as a quick reference for working engineers

Optimal Control Leslie M. Hocking,1991 Systems that evolve

with time occur frequently in nature and modelling the behaviour of such systems provides an important application of mathematics These systems can be completely deterministic but it may be possible too to control their behaviour by intervention through controls The theory of optimal control is concerned with determining such controls which at minimum cost either direct the system along a given trajectory or enable it to reach a given point in its state space This textbook is a straightforward introduction to the theory of optimal control with an emphasis on presenting many different applications Professor Hocking has taken pains to ensure that the theory is developed to display the main themes of the arguments but without using sophisticated mathematical tools Problems in this setting can arise across a wide range of subjects and there are illustrative examples of systems from as diverse fields as dynamics economics population control and medicine

Throughout there are many worked examples and numerous exercises with solutions are provided **Primer on Optimal Control Theory** Jason L. Speyer,David H. Jacobson,2010-05-13 A rigorous introduction to optimal control theory which will

enable engineers and scientists to put the theory into practice *Nonlinear Optimal Control Theory* Leonard David Berkovitz, Negash G. Medhin, 2012-08-25 Nonlinear Optimal Control Theory presents a deep wide ranging introduction to the mathematical theory of the optimal control of processes governed by ordinary differential equations and certain types of differential equations with memory. Many examples illustrate the mathematical issues that need to be addressed when using optimal control techniques in diverse areas. Drawing on classroom tested material from Purdue University and North Carolina State University the book gives a unified account of bounded state problems governed by ordinary integrodifferential and delay systems. It also discusses Hamilton Jacobi theory. By providing a sufficient and rigorous treatment of finite dimensional control problems the book equips readers with the foundation to deal with other types of control problems such as those governed by stochastic differential equations partial differential equations and differential games *Optimal Control*

Bulirsch, Miele, Stoer, Well, 2013-03-08 Optimal Control reports on new theoretical and practical advances essential for analysing and synthesizing optimal controls of dynamical systems governed by partial and ordinary differential equations. New necessary and sufficient conditions for optimality are given. Recent advances in numerical methods are discussed. These have been achieved through new techniques for solving large sized nonlinear programs with sparse Hessians and through a combination of direct and indirect methods for solving the multipoint boundary value problem. The book also focuses on the construction of feedback controls for nonlinear systems and highlights advances in the theory of problems with uncertainty. Decomposition methods of nonlinear systems and new techniques for constructing feedback controls for state and control constrained linear quadratic systems are presented. The book offers solutions to many complex practical optimal control problems *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

Introduction to Optimal Control Ian McCausland, 1977Optimal Control and Estimation Robert F.

Stengel, 1994-09-20 An excellent introduction to optimal control and estimation theory and its relationship with LQG design invaluable as a reference for those already familiar with the subject Automatica This highly regarded graduate level text provides a comprehensive introduction to optimal control theory for stochastic systems emphasizing application of its basic concepts to real problems The first two chapters introduce optimal control and review the mathematics of control and estimation Chapter 3 addresses optimal control of systems that may be nonlinear and time varying but whose inputs and parameters are known without error Chapter 4 of the book presents methods for estimating the dynamic states of a system that is driven by uncertain forces and is observed with random measurement error Chapter 5 discusses the general problem of stochastic optimal control and the concluding chapter covers linear time invariant systems Robert F Stengel is Professor of Mechanical and Aerospace Engineering at Princeton University where he directs the Topical Program on Robotics and Intelligent Systems and the Laboratory for Control and Automation He was a principal designer of the Project Apollo Lunar Module control system An excellent teaching book with many examples and worked problems which would be ideal for self study or for use in the classroom The book also has a practical orientation and would be of considerable use to people applying these techniques in practice Short Book Reviews Publication of the International Statistical Institute An excellent book which guides the reader through most of the important concepts and techniques A useful book for students and their teachers and for those practicing engineers who require a comprehensive reference to the subject Library Reviews The Royal Aeronautical Society

Optimal Control Theory and Static Optimization in Economics Daniel Léonard, Ngo van

Long, 1992-01-31 Optimal control theory is a technique being used increasingly by academic economists to study problems involving optimal decisions in a multi period framework This textbook is designed to make the difficult subject of optimal control theory easily accessible to economists while at the same time maintaining rigour Economic intuitions are emphasized and examples and problem sets covering a wide range of applications in economics are provided to assist in the learning process Theorems are clearly stated and their proofs are carefully explained The development of the text is gradual and fully integrated beginning with simple formulations and progressing to advanced topics such as control parameters jumps in state variables and bounded state space For greater economy and elegance optimal control theory is introduced directly without recourse to the calculus of variations The connection with the latter and with dynamic programming is explained in a separate chapter A second purpose of the book is to draw the parallel between optimal control theory and static optimization Chapter 1 provides an extensive treatment of constrained and unconstrained maximization with emphasis on economic insight and applications Starting from basic concepts it derives and explains important results including the envelope theorem and the method of comparative statics This chapter may be used for a course in static optimization The book is largely self contained No previous knowledge of differential equations is required

Foundations of Optimal Control Theory

Ernest Bruce Lee, Lawrence Markus, 1967

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