

What is Optimal Control Theory?

- Dynamic Systems: Evolving over time.
- Time: Discrete or continuous.
Optimal way to control a dynamic system.
- Prerequisites: Calculus, Vectors and Matrices, ODE&PDE
- Applications: Production, Finance/Economics, Marketing and others.

Optimal Control Theory For Applications

Leslie M. Hocking



Optimal Control Theory For Applications:

Optimal Control Theory Suresh P. Sethi, Gerald L. Thompson, 2005-09-06 Optimal control methods are used to determine optimal ways to control a dynamic system The theoretical work in this field serves as a foundation for the book which the authors have 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 *Optimal Control Theory* Suresh P.

Sethi, 2018-11-28 This fully revised 3rd edition offers an introduction to optimal control theory and its diverse applications in management science and economics It brings to students the concept of the maximum principle in continuous as well as discrete time by using dynamic programming and Kuhn Tucker theory While some mathematical background is needed the emphasis of the book is not on mathematical rigor but on modeling realistic situations faced in business and economics The book exploits optimal control theory to the functional areas of management including finance production and marketing and to economics of growth and of natural resources In addition this new edition features materials on stochastic Nash and Stackelberg differential games and an adverse selection model in the principal agent framework The book provides exercises for each chapter and answers to selected exercises to help deepen the understanding of the material presented Also included are appendices comprised of supplementary material on the solution of differential equations the calculus of variations and its relationships to the maximum principle and special topics including the Kalman filter certainty equivalence singular control a global saddle point theorem Sethi Skiba points and distributed parameter systems Optimal control methods are used to determine optimal ways to control a dynamic system The theoretical work in this field serves as a foundation for the book which the author has applied to business management problems developed from his research and classroom instruction The new edition has been completely refined and brought up to date Ultimately this should continue to be a valuable resource for graduate courses on applied optimal control theory but also for financial and industrial engineers economists and operational researchers concerned with the application of dynamic optimization in their fields **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

Optimal Control Theory for Applications David G. Hull, 2003-07-30 The published material represents the outgrowth of teaching analytical optimization to aerospace engineering graduate students To make the material available to the widest audience the prerequisites are limited to calculus and differential equations It is also a book about the mathematical aspects of optimal control theory It was developed in an engineering environment from material learned by the author while applying it to the solution of engineering problems One goal of the book is to help engineering graduate students learn the fundamentals which are needed to apply the methods to engineering problems The examples are from geometry and elementary dynamical systems so that they can be understood by all engineering students Another goal of this text is to unify optimization by using the differential of calculus to create the Taylor series expansions needed to derive the optimality conditions of optimal control theory

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 Suresh P. Sethi, 1981

Optimal Control Theory with Applications in Economics Thomas A. Weber, 2009

Solutions Manual for Optimal Control Theory Suresh P. Sethi, Gerald L. Thompson, 1981-11-30

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 of Dynamic Systems Driven by Vector Measures N. U. Ahmed, Shian Wang, 2021-09-13 This book is devoted to the development of optimal control theory for finite dimensional systems governed by deterministic and stochastic differential equations driven by vector measures The book deals with a broad class of controls including regular controls vector valued measurable functions relaxed controls measure valued functions and controls determined by vector measures where both fully and partially observed control problems are considered In the past few decades there have been remarkable advances in the field of systems and control theory thanks to the unprecedented interaction between mathematics and the physical and engineering sciences Recently optimal control theory for dynamic systems driven by vector measures has attracted increasing interest This book presents this theory for dynamic systems governed by both ordinary and stochastic differential equations including extensive results on the existence of optimal controls and necessary conditions for optimality Computational algorithms are developed based on the optimality conditions with numerical results presented to demonstrate the applicability of the theoretical results developed in the book This book will be of interest to researchers in optimal control or applied functional analysis interested in applications of vector measures to control theory stochastic systems driven by vector measures and related topics In particular this self contained account can be a starting point for further advances in the theory and applications of dynamic systems driven and controlled by vector measures

Solutions Manual for Optimal Control Theory Suresh Prakash Sethi, Gerald L Thompson, 2014-01-15

Optimization and Optimal Control Altannar Chinchuluun, Panos M. Pardalos, Rentsen Enkhbat, Ider Tseveendorj, 2010-07-07 Optimization and optimal control are the main tools in decision making Because of their numerous applications in various disciplines research in these areas is accelerating at a rapid pace Optimization and Optimal Control Theory and Applications brings together the latest developments in these areas of research as well as presents applications of these results to a wide range of real world problems This volume can serve as a useful resource for researchers practitioners and advanced graduate students of

mathematics and engineering working in research areas where results in optimization and optimal control can be applied

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 **Infinite Horizon Optimal**

Control Dean A. Carlson, Alain Haurie, 2013-06-29 This monograph deals with various classes of deterministic continuous time optimal control problems which are defined over unbounded time intervals. For these problems the performance criterion is described by an improper integral and it is possible that when evaluated at a given admissible element this criterion is unbounded. To cope with this divergence new optimality concepts referred to here as overtaking weakly overtaking agreeable plans etc have been proposed. The motivation for studying these problems arises primarily from the economic and biological sciences where models of this nature arise quite naturally since no natural bound can be placed on the time horizon when one considers the evolution of the state of a given economy or species. The responsibility for the introduction of this interesting class of problems rests with the economist who first studied them in the modeling of capital accumulation processes. Perhaps the earliest of these was F. Ramsey who in his seminal work on a theory of saving in 1928 considered a dynamic optimization model defined on an infinite time horizon. Briefly this problem can be described as a Lagrange problem with unbounded time interval. The advent of modern control theory particularly the formulation of the famous Maximum Principle of Pontryagin has had a considerable impact on the treatment of these models as well as optimization theory in general **Optimal Control of Distributed Systems** A. V. Fursikov, 2000 This volume presents the

analysis of optimal control problems for systems described by partial differential equations. The book offers simple and clear exposition of main results in this area. The methods proposed by the author cover cases where the controlled system corresponds to well posed or ill posed boundary value problems which can be linear or nonlinear. The uniqueness problem for the solution of nonlinear optimal control problems is analysed in various settings. Solutions of several previously unsolved problems are given. In addition general methods are applied to the study of two problems connected with optimal control of fluid flows described by the Navier Stokes equations *The Robust Maximum Principle* Vladimir G. Boltyanski, Alexander S. Poznyak, 2011-11-06 Covering some of the key areas of optimal control theory OCT a rapidly expanding field the authors use new methods to set out a version of OCT's more refined maximum principle. The results obtained have applications in production planning reinsurance dividend management multi model sliding mode control and multi model differential games. This book explores material that will be of great interest to post graduate students researchers and practitioners in applied mathematics and engineering particularly in the area of systems and control **Optimal Control Theory with Economic**

Applications A. Seierstad, K. Sydsæter, 1987-02 This book serves not only as an introduction but also as an advanced text and reference source in the field of deterministic optimal control systems governed by ordinary differential equations. It also includes an introduction to the classical calculus of variations. An important feature of the book is the inclusion of a large

number of examples in which the theory is applied to a wide variety of economics problems The presentation of simple models helps illuminate pertinent qualitative and analytic points useful when confronted with a more complex reality These models cover economic growth in both open and closed economies exploitation of non renewable resources pollution control behaviour of firms and differential games A great emphasis on precision pervades the book setting it apart from the bulk of literature in this area The rigorous techniques presented should help the reader avoid errors which often recur in the application of control theory within economics *Optimal Control Theory and Its Applications* Bruce J. Kirby, 1974

PRACTICAL APPLICATION OF OPTIMAL CONTROL THEORY QUAN-FANG WANG, 2011-11-11 Stochastic Optimal Control Robert F. Stengel, 1986-09-08 Presents techniques for optimizing problems in dynamic systems with terminal and path constraints Includes optimal feedback control feedback control for linear systems and regulator synthesis Offers iterative methods for solving nonlinear control problems Demonstrates how to apply optimal control in a practical fashion Serves as a text for graduate controls courses as offered in aerospace mechanical and chemical engineering departments

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