

Suresh P. Sethi

Optimal Control Theory

Applications to Management Science
and Economics

Third Edition

 Springer

Optimal Control Theory Applications To Management Science

Houmin Yan, G. George Yin, Qing Zhang



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Optimal control theory Suresh P. Sethi, 1981

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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, 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.

Solutions Manual for Optimal Control Theory Suresh P.

Sethi, Gerald L. Thompson, 1981-11-30 **Solutions Manual for Optimal Control Theory** Suresh Prakash Sethi, Gerald L. Thompson, 2014-01-15 *Optimal Control and Dynamic Games* Christophe Deissenberg, Richard F. Hartl, 2005-11-03

Optimal Control and Dynamic Games has been edited to honor the outstanding contributions of Professor Suresh Sethi in the

fields of Applied Optimal Control Professor Sethi is internationally one of the foremost experts in this field He is among others co author of the popular textbook Sethi and Thompson Optimal Control Theory Applications to Management Science and Economics The book consists of a collection of essays by some of the best known scientists in the field covering diverse aspects of applications of optimal control and dynamic games to problems in Finance Management Science Economics and Operations Research In doing so it provides both a state of the art overview over recent developments in the field and a reference work covering the wide variety of contemporary questions that can be addressed with optimal control tools and demonstrates the fruitfulness of the methodology

Optimal Control Theory Suresh P. Sethi, 2022-01-03 This new 4th edition offers an introduction to optimal control theory and its diverse applications in management science and economics It introduces students to the concept of the maximum principle in continuous as well as discrete time by combining 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 encountered in business and economics It applies optimal control theory to the functional areas of management including finance production and marketing as well as the economics of growth and of natural resources In addition it features material on stochastic Nash and Stackelberg differential games and an adverse selection model in the principal agent framework Exercises are included in each chapter while the answers to selected exercises help deepen readers understanding of the material covered Also included are appendices of supplementary material on the solution of differential equations the calculus of variations and its ties 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 the foundation for the book in which the author applies it to business management problems developed from his own research and classroom instruction The new edition has been refined and updated making it a valuable resource for graduate courses on applied optimal control theory but also for financial and industrial engineers economists and operational researchers interested in applying dynamic optimization in their fields

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 Applications of Optimal Control Theory in Management Science and Economics

Suresh Pal Sethi,1971 **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 *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

A Primer on the Calculus of Variations and Optimal Control Theory Mike Mesterton-Gibbons,2009 The calculus of variations is used to find functions that optimize quantities expressed in terms of integrals Optimal control theory seeks to find functions that minimize cost integrals for systems described by differential equations This book is an introduction to both the classical theory of the calculus of variations and the more modern developments of optimal control theory from the

perspective of an applied mathematician It focuses on understanding concepts and how to apply them The range of potential applications is broad the calculus of variations and optimal control theory have been widely used in numerous ways in biology criminology economics engineering finance management science and physics Applications described in this book include cancer chemotherapy navigational control and renewable resource harvesting The prerequisites for the book are modest the standard calculus sequence a first course on ordinary differential equations and some facility with the use of mathematical software It is suitable for an undergraduate or beginning graduate course or for self study It provides excellent preparation for more advanced books and courses on the calculus of variations and optimal control theory

An Introduction to Optimal Control Theory Onésimo Hernández-Lerma, Leonardo R. Laura-Guarachi, Saul Mendoza-Palacios, David González-Sánchez, 2023-02-21 This book introduces optimal control problems for large families of deterministic and stochastic systems with discrete or continuous time parameter These families include most of the systems studied in many disciplines including Economics Engineering Operations Research and Management Science among many others The main objective is to give a concise systematic and reasonably self contained presentation of some key topics in optimal control theory To this end most of the analyses are based on the dynamic programming DP technique This technique is applicable to almost all control problems that appear in theory and applications They include for instance finite and infinite horizon control problems in which the underlying dynamic system follows either a deterministic or stochastic difference or differential equation In the infinite horizon case it also uses DP to study undiscounted problems such as the ergodic or long run average cost After a general introduction to control problems the book covers the topic dividing into four parts with different dynamical systems control of discrete time deterministic systems discrete time stochastic systems ordinary differential equations and finally a general continuous time MCP with applications for stochastic differential equations The first and second part should be accessible to undergraduate students with some knowledge of elementary calculus linear algebra and some concepts from probability theory random variables expectations and so forth Whereas the third and fourth part would be appropriate for advanced undergraduates or graduate students who have a working knowledge of mathematical analysis derivatives integrals and stochastic processes

Differential Games in Economics and Management Science Engelbert Dockner, 2000-11-16 A comprehensive self contained survey of the theory and applications of differential games one of the most commonly used tools for modelling and analysing economics and management problems which are characterised by both multiperiod and strategic decision making Although no prior knowledge of game theory is required a basic knowledge of linear algebra ordinary differential equations mathematical programming and probability theory is necessary Part One presents the theory of differential games starting with the basic concepts of game theory and going on to cover control theoretic models Markovian equilibria with simultaneous play differential games with hierarchical play trigger strategy equilibria differential games with special structures and stochastic differential games Part Two offers applications to capital

accumulation games industrial organization and oligopoly games marketing resources and environmental economics

Applications of Optimal Control Theory to Economic and Business Systems, Management Science, and Operations Research George Stephen Tracz, 1967 **Proceedings of the 4th International Conference on Electrical Engineering and Control Applications** Sofiane Bououden, Mohammed Chadli, Salim Ziani, Ivan Zelinka, 2020-09-29 This book gathers papers presented during the 4th International Conference on Electrical Engineering and Control Applications. It covers new control system models, troubleshooting tips, and complex system requirements such as increased speed, precision, and remote capabilities. Additionally, the papers discuss not only the engineering aspects of signal processing and various practical issues in the broad field of information transmission but also novel technologies for communication networks and modern antenna design. This book is intended for researchers, engineers, and advanced postgraduate students in the fields of control and electrical engineering, computer science, and signal processing, as well as mechanical and chemical engineering.

Optimal Control Applied to Biological Models Suzanne Lenhart, John T. Workman, 2007-05-07 From economics and business to the biological sciences, to physics and engineering, professionals successfully use the powerful mathematical tool of optimal control to make management and strategy decisions. Optimal Control Applied to Biological Models thoroughly develops the mathematical aspects of optimal control theory and provides insight into the application of this theory to biological models. Focusing on mathematical concepts, the book first examines the most basic problem for continuous time ordinary differential equations (ODEs) before discussing more complicated problems such as variations of the initial conditions, imposed bounds on the control, multiple states, and controls, linear dependence on the control, and free terminal time. In addition, the authors introduce the optimal control of discrete systems and of partial differential equations (PDEs). Featuring a user-friendly interface, the book contains fourteen interactive sections of various applications, including immunology and epidemic disease models, management decisions in harvesting, and resource allocation models. It also develops the underlying numerical methods of the applications and includes the MATLAB codes on which the applications are based. Requiring only basic knowledge of multivariable calculus, simple ODEs, and mathematical models, this text shows how to adjust controls in biological systems in order to achieve proper outcomes.

Modelling Empty Container Repositioning Logistics Dong-Ping Song, Jingxin Dong, 2022-01-20 The book takes the inventory control perspective to tackle empty container repositioning logistics problems in regional transportation systems by explicitly considering the features such as demand imbalance over space, dynamic operations over time, uncertainty in demand, and transport and container leasing phenomenon. The book has the following unique features: First, it provides a discussion of broad empty equipment logistics, including empty freight vehicle redistribution, empty passenger vehicle redistribution, empty bike repositioning, empty container chassis repositioning, and empty container repositioning (ECR) problems. The similarity and unique characteristics of ECR compared to other empty equipment repositioning problems are explained. Second, we adopt the stochastic dynamic programming approach to tackle

the ECR problems which offers an algorithmic strategy to characterize the optimal policy and captures the sequential decision making phenomenon in anticipation of uncertainties over time and space Third we are able to establish closed form solutions and structural properties of the optimal ECR policies in relatively simple transportation systems Such properties can then be utilized to construct threshold type ECR policies for more complicated transportation systems In fact the threshold type ECR policies resemble the well known s S and s Q policies in inventory control theory These policies have the advantages of being decentralized easy to understand easy to operate quick response to random events and minimal on line computation and communication Fourth several sophisticated optimization techniques such as approximate dynamic programming simulation based meta heuristics stochastic approximation perturbation analysis and ordinal optimization methods are introduced to solve the complex stochastic optimization problems The book will be of interest to researchers and professionals in logistics transport supply chain and operations research

Differential Games in Marketing Steffen Jørgensen, Georges Zaccour, 2012-12-06 Game theory has proven useful to represent and conceptualize problems of conflict and cooperation in a formal way and to predict the outcome of such situations Differential games are dynamic games that are particularly designed to study systems where observations and decisions are made in real time The book conveys to the reader the state of the art of research in marketing applications of differential game theory This research started about 25 years ago and the literature has now reached an extent and a maturity that makes it natural to take stock The book deals with differential games in advertising pricing and marketing channels as well as with marketing production and pricing advertising interfaces It provides also a tutorial on main concepts in differential games

Eco-Environmental Informatics TianXiang Yue, Na Zhao, WenJiao Shi, ZeMeng Fan, 2025-08-02 This book describes the basic contents of eco environmental informatics EEI systematically It consists of ten chapters development history of the groundworks of knowledge data and models for the EEI emergence since the early 1850s the core principles of EEI including methods for high accuracy surface modelling and the fundamental theorem for eco environmental surface modelling spatial interpolations scale transformations data fusion and model data assimilation as well as their applications connecting ecology environmental science and geographical science It is used as a textbook for advanced undergraduate and graduate students in the field of EEI It also serves as a reference book for researchers involved in geographical information science ecological informatics environmental informatics computer aided design and planetary surface modelling

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