

Optimal Control Theory And Static Optimization In Economics Hardcover

Control TheoryControl Theory and DesignIntroduction to Control Theory, Including
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Miranda Patrizio Colaneri David N. Burghes Roxin Vito G. Massari Fritz Colonius
Piernicola Bettiol Zdzislaw Bubnicki Michail I. Zelikin Torkel Glad Konstanty Jan Kurman
Claudio Bonivento Michael Athans Wijesuriya P. Dayawansa A.K. Aziz Donald E. Kirk
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control theory is a field of applied mathematics and engineering that deals with the basic principles underlying the analysis and design of control systems controlling a system means to influence the behavior of the system in order to achieve a desired goal control theory deals with the use of a controller to achieve this purpose control theory has been recognized as a mathematical subject since the 1960 s it has contributed to scientific and technological progress in many areas over the last few decades control theory has been extensively used in modern society from simple applications such as temperature devices to sophisticated systems in space flight the aim of this book is to solve different problems concerning control systems this book joins a number of recent works in control theory and is useful as a source for researchers in this field concerning control systems

control systems design methodologies have long suffered the traditional and myopic dichotomy between time and frequency domain approaches each of them being

specialized to cope with only scarcely overlapping performance requirements this book is aimed at bridging the two approaches by presenting design methodologies based on the minimization of a norm h_2 of a suitable transfer function a distinctive feature of these techniques is the fact that they do not create only one solution to the design problem instead they provide a whole set of admissible solutions which satisfy a constraint on the maximum deterioration of the performance index a systematic book on this topic is long overdue self contained and practical in its approach control theory and design enables the reader to use the relevant techniques in various real life applications the text covers the basic facts of robust control and theory as well as more recent achievements such as robust stability and robust performance in presence of parameter uncertainties it features a new perspective on classical l_q results and further sections on robust synthesis nonclassical optimization problems and analysis and synthesis of uncertain systems control theory and design is essential reading for graduates and those entering the research field the required mathematical background is provided so that the book is also suitable for undergraduate students with some knowledge of basic systems and control provides a self contained manual for learning control systems and design contains a clear and concise presentation of the technical background needed includes a new perspective of classical l_q results contains updated results and novel contributions to nonstandard h_2 h_∞ symbol problems covers all the theory from the basic to the more advanced issues

the general context of this book is applied to systems in n dimensional space emphasis is placed on a general approach to control theory independent of optimization and demonstrates a novel approach by converting a given dynamical system into a control system in order to obtain a deeper understanding of its mode of action contents of the monograph include a presentation of the basic concepts and results of control theory the typical and classical behaviour of control systems techniques for transforming dynamic systems into control systems and the systematic approach to study control systems in applications as shown in many examples

control theory is a theory that deals with influencing the behaviour of dynamical systems and an interdisciplinary sub field of science which originated in engineering and mathematics and evolved into use by the social sciences such as psychology sociology and criminology in this book the authors present and discuss topical data on control theory relating to these fields

this new text reference is an excellent resource for the foundations and applications of control theory and nonlinear dynamics all graduates practitioners and professionals in control theory dynamical systems perturbation theory engineering physics and nonlinear dynamics will find the book a rich source of ideas methods and applications with its careful use of examples and detailed development it is suitable for use as a self study reference guide for all scientists and engineers

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

well written practice oriented textbook and compact textbook presents the contemporary state of the art of control theory and its applications introduces traditional problems that are useful in the automatic control of technical processes plus presents current issues of control explains methods can be easily applied for the determination of the decision algorithms in computer control and management systems

this is a textbook designed for an advanced course in control theory currently most textbooks on the subject either looks at multivariate systems or non linear systems however control theory is the only textbook available that covers both it explains current developments in these two types of control techniques and looks at tools for computer aided design for example matlab and its toolboxes to make full use of computer design tools a good understanding of their theoretical basis is necessary and to enable this the book presents relevant mathematics clearly and simply the practical limits of control systems are explored and the relevance of these to control design are discussed control theory is an ideal textbook for final year undergraduate and postgraduate courses and the student will be helped by a series of exercises at the end of each chapter professional engineers will also welcome it as a core reference

this volume is the outcome of the first easy workshop on advances in control theory and applications which was held at university of bologna on may 22 26 2006 it consists of selected contributions by some of the invited speakers and contains recent results in control the volume is intended for engineers researchers and students in control engineering

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

this volume contains a collection of papers in control theory and applications presented at a conference in honor of clyde martin on the occasion of his 60th birthday held in lubbock texas november 14 15 2003

control theory of systems governed by partial differential equations covers the proceedings of the 1976 conference by the same title held at the naval surface weapons center silver spring maryland the purpose of this conference is to examine the control theory of partial differential equations and its application this text is divided into five chapters that primarily focus on tutorial lecture series on the theory of optimal control of distributed systems it describes the many manifestations of the theory and its applications appearing in the other chapters this work also presents the principles of the duality and asymptotic methods in control theory including the variational principle for the heat equation a chapter highlights systems that are not of the linear quadratic type this chapter also explores the control of free surfaces and the geometrical control variables the last chapter provides a summary of the features and applications of the numerical approximation of problems of optimal control this book will prove useful to mathematicians engineers and researchers

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

this reference book can be read at different levels making it a powerful source of information it presents most of the aspects of control that can help anyone to have a synthetic view of control theory and possible applications especially concerning process engineering

this introduction to the theory of feedback control systems covers the whole of control theory unifying various relevant topics in a single volume although the material of the book is essentially mathematical there is minimal emphasis on the technical mathematical niceties hardly needed to generate insights about control systems much of this second edition has been rewritten to take account of recent developments in control theory and how it is understood successful features have been retained from the first edition including the uniform treatment of both continuous time and discrete time systems the inclusion of a wide range of topic and the provision of problems with answers making it ideal in format and content for undergraduates and graduates in engineering science

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