

Optimal Control Theory And Static Optimization In Economics Hardcover

Control Theory
Control Theory and its Applications
Control Theory and Its Applications
Advances in Control Theory and Applications
Control Theory
Introduction to Control Theory, Including Optimal Control
Control Theory
Control Theory
Fuzzy Modeling and Control: Theory and Applications
Optimal Control Theory
Modern Control System Theory and Design
Introduction to Control Theory
Motor and Dynamo Control, Theory and Practice
Control Theory and Optimization
The Dynamics of Control
Optimal Control
Control Theory in Physics and Other Fields of Science
New Directions and Applications in Control Theory
Control Theory and Advanced Technology
Mathematical Control Theory
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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

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 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

this fully updated new edition of control theory concentrates on explaining and illustrating the concepts that are at the heart of control theory

this revised edition addresses recent developments in the field of control theory it discusses how the rise of hoo and similar approaches has allowed a combination of practicality rigour and user interaction to be brought to bear upon complex control problems the book also covers the rise of ai techniques

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

much work on fuzzy control covering research development and applications has been developed in europe since the 90 s nevertheless the existing books in the field are compilations of articles without interconnection or logical structure or they express the personal point of view of the author this book compiles the developments of researchers with demonstrated experience in the field of fuzzy control following a logic structure and a unified the style the first chapters of the book are dedicated to the introduction of the main fuzzy logic techniques where the following chapters focus on concrete applications this book is supported by the eusflat and cea ifac societies which include a large number of researchers in the field of fuzzy logic and control the central topic of the book fuzzy control is one of the main research and development lines covered by these associations

upper level undergraduate text introduces aspects of optimal control theory dynamic programming pontryagin s minimum principle and numerical techniques for trajectory optimization numerous figures tables solution guide available upon request 1970 edition

the definitive guide to control system design modern control system theory and design second edition offers the most comprehensive treatment of control systems available today its unique text software combination integrates classical and modern control system theories while promoting an interactive computer based approach to design solutions the sheer volume of practical examples as well as the hundreds of illustrations of control systems from all engineering fields make this volume accessible to students and indispensable for professional engineers this fully updated second edition features a new chapter on modern control system design including state space design techniques ackermann s formula for pole placement estimation robust control and the h method for control system design other notable additions to this edition are free matlab software containing problem solutions which can be retrieved from the mathworks inc anonymous ftp server at ftp mathworks com pub books shinners programs and tutorials on the use of matlab incorporated directly into the text a complete set of working digital computer

programs reviews of commercial software packages for control system analysis an extensive set of new worked out illustrative solutions added in dedicated sections at the end of chapters expanded end of chapter problems one third with answers to facilitate self study an updated solutions manual containing solutions to the remaining two thirds of the problems superbly organized and easy to use modern control system theory and design second edition is an ideal textbook for introductory courses in control systems and an excellent professional reference its interdisciplinary approach makes it invaluable for practicing engineers in electrical mechanical aeronautical chemical and nuclear engineering and related areas

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 topics and the provision of problems with answers making it ideal in format and content for undergraduates and graduates in engineering science

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

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 book covers systematically and in a simple language the mathematical and physical foundations of controlling deterministic and stochastic evolutionary processes in systems with a high degree of complexity strong emphasis is placed on concepts methods and techniques for modelling assessment and the solution or estimation of control problems in an attempt to understand the large variability of these problems in several branches of physics chemistry and biology as well as in technology and economics the main focus of the book is on a clear physical and mathematical understanding of the dynamics and kinetics behind several kinds of control problems and their relation to self organizing principles in complex systems the book is a modern introduction and a helpful tool for researchers engineers as well as post docs and graduate students interested in an application oriented control theory and related topics

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

geared primarily to an audience consisting of mathematically advanced undergraduate or beginning graduate students this text may additionally be used by

engineering students interested in a rigorous proof oriented systems course that goes beyond the classical frequency domain material and more applied courses the minimal mathematical background required is a working knowledge of linear algebra and differential equations the book covers what constitutes the common core of control theory and is unique in its emphasis on foundational aspects while covering a wide range of topics written in a standard theorem proof style it also develops the necessary techniques from scratch in this second edition new chapters and sections have been added dealing with time optimal control of linear systems variational and numerical approaches to nonlinear control nonlinear controllability via lie algebraic methods and controllability of recurrent nets and of linear systems with bounded controls

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