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emphasizing modern topics and techniques this text blends theory and real world practice mixes design and analysis introduces design early and represents physically what occurs mathematically in feedback control of dynamic systems highlights of the book include realistic problems and examples from a wide range of application areas new to this edition are much sharper pedagogy an increase in the number of examples more thorough development of the concepts a greater range of homework problems a greater number and variety of worked out examples expanded coverage of dynamics modelling and laplace transform topics and integration of matlab including many examples that are formatted in matlab

this work discusses the use of digital computers in the real time control of dynamic systems using both classical and modern control methods two new chapters offer a review of feedback control systems and an overview of digital control systems matlab statements and problems have been more thoroughly and carefully integrated throughout the text to offer students a more complete design picture

for senior level or first year graduate level courses in control analysis and design and related courses within engineering science and management feedback control of dynamic systems covers the material that every engineer and most scientists and prospective managers needs to know about feedback control including concepts like stability tracking and robustness each chapter presents the fundamentals along with comprehensive worked out examples all within a real world context and with historical background information the authors also provide case studies

with close integration of matlab throughout teaching and learning experience this program will provide a better teaching and learning experience for you and your students it will provide an understandable introduction to digital control this text is devoted to supporting students equally in their need to grasp both traditional and more modern topics of digital control real world perspective comprehensive case studies and extensive integrated matlab simulink examples illustrate real world problems and applications focus on design the authors focus on design as a theme early on and throughout the entire book rather than focusing on analysis first and design much later the full text downloaded to your computer with ebooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends ebooks are downloaded to your computer and accessible either offline through the bookshelf available as a free download available online and also via the ipad and android apps upon purchase you ll gain instant access to this ebook time limit the ebooks products do not have an expiry date you will continue to access your digital ebook products whilst you have your bookshelf installed

one of the first books to provide in depth and systematic application of finite element methods to the field of stochastic structural dynamics the parallel developments of the finite element methods in the 1950 s and the engineering applications of stochastic processes in the 1940 s provided a combined numerical analysis tool for the studies of dynamics of structures and structural systems under random loadings in the open literature there are books on statistical dynamics of structures and books on structural dynamics with chapters dealing with random response analysis however a systematic treatment of stochastic structural dynamics applying the finite element methods seems to be lacking aimed at advanced and specialist levels the author presents and illustrates analytical and direct integration methods for analyzing the statistics of the response of structures to stochastic loads the analysis methods are based on structural models represented via the finite element method in addition to linear problems the text also addresses nonlinear problems and non stationary random excitation with systems having large spatially stochastic property variations

this book offers a comprehensive presentation of optimization and polyoptimization methods the examples included are taken from various domains mechanics electrical engineering economy informatics and automatic control making the book especially attractive with the motto from general abstraction to practical examples it presents the theory and applications of optimization step by step from the function of one variable and functions of many variables with constraints to infinite dimensional problems calculus of variations a continuation of which are optimization methods of dynamical systems that is dynamic programming and the maximum principle and finishing with polyoptimization methods it includes numerous practical examples e g optimization of hierarchical systems optimization of time delay systems rocket stabilization modeled by balancing a stick on a finger a simplified version of the journey to the moon optimization of hybrid systems and of the electrical long transmission line analytical determination of extremal errors in dynamical systems of the rth order multicriteria optimization with safety margins the skeleton method and ending with a dynamic model of bicycle the book is aimed at readers who wish to study modern optimization methods from problem formulation and proofs to practical applications illustrated by inspiring concrete examples

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

control and dynamic systems advances in theory and applications volume 50 robust control system techniques and applications part 1 of 2 is a two volume sequence devoted to the issues and

application of robust control systems techniques this volume is composed of 10 chapters and begins with a presentation of the important techniques for dealing with conflicting design objectives in control systems the subsequent chapters describe the robustness techniques of systems using differential difference equations the design of a wide class of robust nonlinear systems the techniques for dealing with the problems resulting from the use of observers in robust systems design and the effective techniques for the robust control on non linear time varying of tracking control systems with uncertainties these topics are followed by discussions of the effective techniques for the robust control on non linear time varying of tracking control systems with uncertainties and for incorporating adaptive control techniques into a non adaptive robust control design other chapters present techniques for achieving exponential and robust stability for a rather general class of nonlinear systems techniques in modeling uncertain dynamics for robust control systems design and techniques for the optimal synthesis of these systems the last chapters provide a generalized eigenproblem solution for both singular and nonsingular system cases these chapters also look into the stability robustness design for discrete time systems this book will be of value to process and systems engineers designers and researchers

for courses in electrical computing engineering feedback control fundamentals with context case studies and a focus on design feedback control of dynamic systems 8th edition covers the material that every engineer needs to know about feedback control including concepts like stability tracking and robustness each chapter presents the fundamentals along with comprehensive worked out examples all within a real world context and with historical background provided the text is devoted to supporting students equally in their need to grasp both traditional and more modern topics of digital control and the author s focus on design as a theme early on rather than focusing on analysis first and incorporating design much later an entire chapter is devoted to comprehensive case studies and the 8th edition has been revised with up to date information along with brand new sections problems and examples the full text downloaded to your computer with ebooks you can search for key concepts words and phrases make highlights and notes as you study share your notes with friends ebooks are downloaded to your computer and accessible either offline through the bookshelf available as a free download available online and also via the ipad and android apps upon purchase you ll gain instant access to this ebook time limit the ebooks products do not have an expiry date you will continue to access your digital ebook products whilst you have your bookshelf installed

this book presents a series of innovative technologies and research results on adaptive control of dynamic systems with quantization uncertainty and nonlinearity including the theoretical success and practical development such as the approaches for stability analysis the compensation of quantization the treatment of subsystem interactions and the improvement of system tracking and transient performance novel solutions by adopting backstepping design tools to a number of hotspots and challenging problems in the area of adaptive control are provided in the first three chapters the general design procedures and stability analysis of backstepping controllers and the basic descriptions and properties of quantizers are introduced as preliminary knowledge for this book in the remainder of this book adaptive control schemes are introduced to compensate for the effects of input quantization state quantization both input and state output quantization for uncertain nonlinear systems and are applied to helicopter systems and dc microgrid discussion remarks are provided in each chapter highlighting new approaches and contributions to emphasize the novelty of the presented design and analysis methods simulation results are also given in each chapter to show the effectiveness of these methods this book is helpful to learn and understand the fundamental backstepping schemes for state feedback control and output feedback control it can be used as a reference book or a textbook on adaptive quantized control for students with some background in feedback control systems researchers graduate students and engineers in the fields of control information and communication electrical engineering mechanical engineering computer science and others will benefit from this book

this tutorial provides a variety of simulation algorithms for the design and control of dynamic systems it explains the accuracy and stability of automatic control theory emphasizing those systems described by stiff non linear differential equations

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