Feedback Control Of Dynamic Systems 6th Edition

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Systems Driven by Vector Measures Digital Control of Dynamic Systems Control and Dynamic Systems Optimization and Control of Dynamic Systems Gene F. Franklin Cho W. S. To William J. Palm Gene F. Franklin Yasundo Takahashi Frederick O. Smetana Jing Zhou Cornelius T. Leondes Tsu-kai Chu Franklin Gene F. Franklin Gene F. Franklin N. U. Ahmed Chen-Fang Chang C. T. Leondes Henryk Górecki

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

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

introduction review of continuous control introductory digital control discrete systems analysis sampled data systems discrete equivalents design using transform techniques design using state space methods multivariable and optimal control quantization effects sample rate selection system identification nonlinear control design of a disk drive servo a case study appendix a exemples appendix b tables appendix c a few results from matrix analysis appendix d summary of facts from the theory of probability and stochastic processes appendix e matlab functions appendix f differences between matlab v5 and v4 references index

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 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

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

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