

Anti-Disturbance Control for Systems with Multiple Disturbances

Lei Guo • Songyin Cao



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Anti Disturbance Control For Systems With Multiple Disturbances Automation And Control Engineering

Domagoj Tolić, Sandra Hirche



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Anti-Disturbance Control for Systems with Multiple Disturbances Lei Guo, Songyin Cao, 2013-09-24 Developing the essential theory for architecting and tackling issues faced during complex realistic engineering problems this volume focuses on enhanced anti disturbance control and filtering theory and applications The book specifically addresses the novel disturbance observer based control DOBC methodologies for uncertain and nonlinear systems in time domain It also examines novel anti disturbance control and filtering with the composite hierarchical architecture to enhance control and filtering for the complex control systems with multiple disturbances The book provides application examples including flight control robotic system altitude control and initial alignment to show how to use the theoretical methods in engineering

Anti-Disturbance Control for Systems with Multiple Disturbances Lei Guo, Songyin Cao, 2018-10-08 The main focus of this monograph will be on the Enhanced Anti Disturbance Control and filtering theory and their applications In fact the classical anti disturbance control theory only considered one equivalent disturbance which is merged by different unknown sources However it is noted that along with the development of information obtaining and processing technologies one can get more information or knowledge about various types of disturbances

Anti-disturbance Intrusion- and Fault-Tolerant Control of Multi-agent Systems Xiang-Gui Guo, Pei-Ming Liu, Dong-Yu Zhang, Jian-Liang Wang, Lei Guo, 2025-10-03 This book focuses on anti disturbance intrusion and fault tolerant consensus control for MASs The main feature of this book is the successful introduction of event triggered distributed adaptive feedback control methodology observer technology and sliding mode technology to solve the problem of anti disturbance intrusion tolerant and fault tolerant control of MAS Meanwhile pinning control strategies are proposed to realize the cluster consensus control of MAS In addition based on the Nussbaum function the fault tolerant control problems of different types of MASs subjected to time varying unknown nonidentical direction TVUND faults are investigated This book provides a coherent approach and contains valuable reference materials for researchers who wish to explore the area of MAS Researchers graduate students and engineers in the fields of electrical engineering control engineering applied mathematics computer science and others will benefit from this book

Optimal Networked Control Systems with MATLAB Jagannathan Sarangapani, Hao Xu, 2018-09-03 Optimal Networked Control Systems with MATLAB discusses optimal controller design in discrete time for networked control systems NCS The authors apply several powerful modern control techniques in discrete time to the design of intelligent controllers for such NCS Detailed derivations rigorous stability proofs computer simulation examples and downloadable MATLAB codes are included for each case The book begins by providing background on NCS networked imperfections dynamical systems stability theory and stochastic optimal adaptive controllers in discrete time for linear and nonlinear systems It lays the foundation for reinforcement learning based optimal adaptive controller use for finite and infinite horizons The text then Introduces quantization effects for linear and nonlinear NCS describing the design of

stochastic adaptive controllers for a class of linear and nonlinear systems Presents two player zero sum game theoretic formulation for linear systems in input output form enclosed by a communication network Addresses the stochastic optimal control of nonlinear NCS by using neuro dynamic programming Explores stochastic optimal design for nonlinear two player zero sum games under communication constraints Treats an event sampled distributed NCS to minimize transmission of state and control signals within the feedback loop via the communication network Covers distributed joint optimal network scheduling and control design for wireless NCS as well as the effect of network protocols on the wireless NCS controller design An ideal reference for graduate students university researchers and practicing engineers

Optimal Networked Control Systems with MATLAB instills a solid understanding of neural network controllers and how to build them *Networked Control Systems with Intermittent Feedback* Domagoj Tolić, Sandra Hirche, 2017-03-31 Networked Control Systems NCSs are spatially distributed systems for which the communication between sensors actuators and controllers is realized by a shared wired or wireless communication network NCSs offer several advantages such as reduced installation and maintenance costs as well as greater flexibility over conventional control systems in which parts of control loops exchange information via dedicated point to point connections The principal goal of this book is to present a coherent and versatile framework applicable to various settings investigated by the authors over the last several years This framework is applicable to nonlinear time varying dynamic plants and controllers with delayed dynamics a large class of static dynamic probabilistic and priority oriented scheduling protocols delayed noisy lossy and intermittent information exchange decentralized control problems of heterogeneous agents with time varying directed not necessarily balanced communication topologies state and output feedback off line and on line intermittent feedback optimal intermittent feedback through Approximate Dynamic Programming ADP and Reinforcement Learning RL and control systems with exogenous disturbances and modeling uncertainties

Cooperative Control of Multi-Agent Systems Zhongkui Li, Zhisheng Duan, 2017-12-19 Distributed controller design is generally a challenging task especially for multi agent systems with complex dynamics due to the interconnected effect of the agent dynamics the interaction graph among agents and the cooperative control laws Cooperative Control of Multi Agent Systems A Consensus Region Approach offers a systematic framework for designing distributed controllers for multi agent systems with general linear agent dynamics linear agent dynamics with uncertainties and Lipschitz nonlinear agent dynamics Beginning with an introduction to cooperative control and graph theory this monograph Explores the consensus control problem for continuous time and discrete time linear multi agent systems Studies the H and H2 consensus problems for linear multi agent systems subject to external disturbances Designs distributed adaptive consensus protocols for continuous time linear multi agent systems Considers the distributed tracking control problem for linear multi agent systems with a leader of nonzero control input Examines the distributed containment control problem for the case with multiple leaders Covers the robust cooperative control problem for multi agent systems with linear

nominal agent dynamics subject to heterogeneous matching uncertainties Discusses the global consensus problem for Lipschitz nonlinear multi agent systems Cooperative Control of Multi Agent Systems A Consensus Region Approach provides a novel approach to designing distributed cooperative protocols for multi agent systems with complex dynamics The proposed consensus region decouples the design of the feedback gain matrices of the cooperative protocols from the communication graph and serves as a measure for the robustness of the protocols to variations of the communication graph By exploiting the decoupling feature adaptive cooperative protocols are presented that can be designed and implemented in a fully distributed fashion

Doubly Fed Induction Generators Edgar N. Sanchez,Riemann Ruiz-Cruz,2016-08-05 Doubly Fed Induction Generators Control for Wind Energy provides a detailed source of information on the modeling and design of controllers for the doubly fed induction generator DFIG used in wind energy applications Focusing on the use of nonlinear control techniques this book Discusses the main features and advantages of the DFIG Describes key theoretical fundamentals and the DFIG mathematical model Develops controllers using inverse optimal control sliding modes and neural networks Devises an improvement to add robustness in the presence of parametric variations Details the results of real time implementations All controllers presented in the book are tested in a laboratory prototype Comparisons between the controllers are made by analyzing statistical measures applied to the control objectives

Linear Control System Analysis and Design with MATLAB Constantine H. Houpis,Stuart N. Sheldon,2013-10-30 This book uses numerous in depth explanations diagrams calculations and tables to provide an intensive overview of modern control theory and control system design Mathematics is kept to a minimum and engineering applications are stressed throughout Completely updated and packed with student friendly features the sixth edition presents a range of updated examples using MATLAB as well as an appendix listing MATLAB functions for optimizing control system analysis and design Over 75 percent of the problems presented in the previous edition have been revised or replaced

Nonlinear Control of Dynamic Networks Tengfei Liu,Zhong-Ping Jiang,David J. Hill,2018-09-03 Significant progress has been made on nonlinear control systems in the past two decades However many of the existing nonlinear control methods cannot be readily used to cope with communication and networking issues without nontrivial modifications For example small quantization errors may cause the performance of a well designed nonlinear control system to deteriorate Motivated by the need for new tools to solve complex problems resulting from smart power grids biological processes distributed computing networks transportation networks robotic systems and other cutting edge control applications Nonlinear Control of Dynamic Networks tackles newly arising theoretical and real world challenges for stability analysis and control design including nonlinearity dimensionality uncertainty and information constraints as well as behaviors stemming from quantization data sampling and impulses Delivering a systematic review of the nonlinear small gain theorems the text Supplies novel cyclic small gain theorems for large scale nonlinear dynamic networks Offers a cyclic small gain framework for nonlinear control with static or dynamic quantization Contains a

combination of cyclic small gain and set valued map designs for robust control of nonlinear uncertain systems subject to sensor noise Presents a cyclic small gain result in directed graphs and distributed control of nonlinear multi agent systems with fixed or dynamically changing topology Based on the authors recent research Nonlinear Control of Dynamic Networks provides a unified framework for robust quantized and distributed control under information constraints Suggesting avenues for further exploration the book encourages readers to take into consideration more communication and networking issues in control designs to better handle the arising challenges

Composite Disturbance Rejection Control (CDRC) for Complex Dynamic Systems Jinhui Zhang, 2025-06-01 Composite Disturbance Rejection Control CDRC for Complex Dynamic Systems introduces a range of innovative composite disturbance rejection control methods integrating DOB ADRC and other advanced control algorithms These methods are poised to enhance the control performance of diverse practical control systems in the presence of disturbances Disturbances are pervasive in modern engineering systems exerting a nonnegligible negative influence on system performance and conventional control methods like PID exhibit limited efficacy in managing disturbances while certain advanced control approaches face practical implementation challenges in real world control systems for a multitude of reasons Offers a comprehensive exploration of control strategies across multiple chapters Deepens reader understanding of these methods and enhances their ability to select the most suitable approach for specific situations Introduces a range of Combined Disturbance Rejection Control CDRC methods created by merging different disturbance rejection control techniques Provides readers with innovative approaches to designing control systems tailored to diverse scenarios Presents numerous examples and solutions for industrial control systems

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