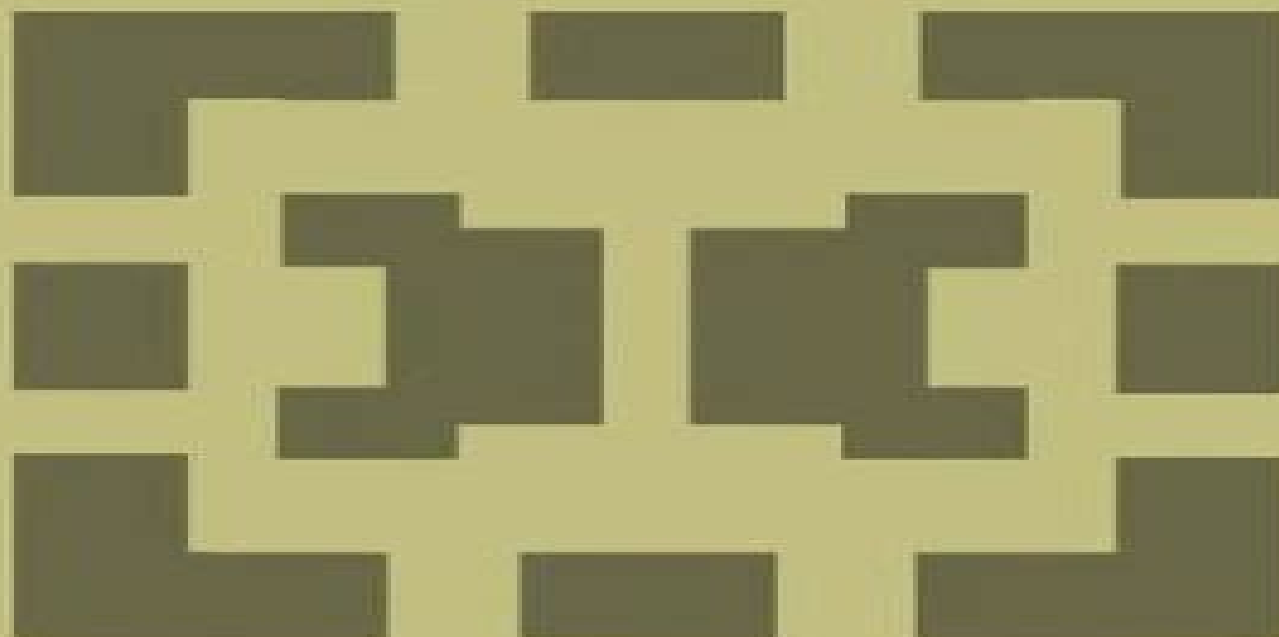


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**Nonlinear and Adaptive
Control of Complex Systems**



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Nonlinear And Adaptive Control Of Complex Systems

Jianhua Zhang, Yang Li, Qiang Chen



Nonlinear And Adaptive Control Of Complex Systems:

Nonlinear and Adaptive Control of Complex Systems A.L. Fradkov, I.V. Miroshnik, V.O. Nikiforov, 1999-07-31 This volume presents a theoretical framework and control methodology for a class of complex dynamical systems characterised by high state space dimension multiple inputs and outputs significant nonlinearity parametric uncertainty and unmodeled dynamics A unique feature of the authors approach is the combination of rigorous concepts and methods of nonlinear control invariant and attracting submanifolds Lyapunov functions exact linearisation passification with approximate decomposition results based on singular perturbations and decentralisation Some results published previously in the Russian literature and not well known in the West are brought to light Basic concepts of modern nonlinear control and motivating examples are given Audience This book will be useful for researchers engineers university lecturers and postgraduate students specialising in the fields of applied mathematics and engineering such as automatic control robotics and control of vibrations

Nonlinear and Adaptive Control of Complex Systems A.L. Fradkov, I.V. Miroshnik, V.O. Nikiforov, 2014-03-14 **Modeling and Control of Complex Systems** Petros A. Ioannou, Andreas Pitsillides, 2007-12-26 There is an emerging interest in the area of modeling and control of complex systems for applications in many engineering and non engineering fields such as biology transportation robotics information technology and communications This text provides a pioneering single source compilation of material from internationally renowned experts with different approaches to the applications of modeling and control of complex systems Sections cover complex systems biological systems communication networks sensor networks and automation autonomous vehicles and robotics transportation systems and structures and others The authors highlight the most important areas of research the latest advances and possible future directions **Systems, Cybernetics, Control, and Automation** Spyros G. Tzafestas, 2022-09-01 Systems cybernetics control and automation SCCA are four interrelated and overlapping scientific and technological fields that have contributed substantially to the development growth and progress of human society A large number of models methods and tools were developed that assure high efficiency of SCCA applied to practical situations The real life applications of SCCA encompass a wide range of man made or biological systems including transportations power generation chemical industry robotics manufacturing cybernetics organisms cyborgs aviation economic systems enterprise systems medical health systems environmental applications and so on The SCCA fields exhibit strong influences on society and rise during their use and application many ethical concerns and dilemmas This book provides a consolidated and concise overview of SCCA in a single volume for the first time focusing on ontological epistemological social impact ethical and general philosophical issues It is appropriate for use in engineering courses as a convenient tutorial source providing fundamental conceptual and educational material on these issues or for independent reading by students and scientists Included in the book is Background material on philosophy and systems theory Major ontological epistemological societal and ethical philosophical aspects of the four fields that are considered in the book Over

400 references and a list of 130 additional books in the relevant fields Over 100 colored photos and 70 line figures that illustrate the text Identification and Adaptive Control for Nonlinear Systems and Applications Jianhua Zhang, Yang Li, Qiang Chen, 2022-03-15 Identification and Adaptive Control for Nonlinear Systems and Applications Applied Mathematics in Control Engineering introduces nonlinear systems concepts system analysis system control methods and applications in various fields The major contribution of the book includes 1 The basic concepts of nonlinear systems stability analysis and nonlinear systems control method 2 The stability analysis of complex nonlinear system with adaptive neural networks control 3 The nonlinear systems adaptive sliding mode controller design of complex nonlinear systems 4 Some industrial application The book gives an introduction to basic nonlinear systems architectures for adaptive control methods Emphasis is placed on the mathematical analysis of these systems on methods of controlling them for adaptive control and on their application to practical engineering problems in such areas as aircraft path planning This book enables audience to understand the basic architectures of control science and engineering and to master classical and advanced design method for nonlinear system Introduces nonlinear systems concepts system analysis system control methods and applications in various fields Presents basic concepts of nonlinear systems stability analysis and nonlinear systems control method Offers practical examples

Nonlinear and Adaptive Control Systems Zhengtao Ding, 2013-04-04 Nonlinear and Adaptive Control Systems treats nonlinear control and adaptive control in a unified framework presenting the major results at a moderate mathematical level suitable for MSc students and engineers with undergraduate degrees **Control of Complex Systems** Kyriakos Vamvoudakis, Sarangapani Jagannathan, 2016-07-27 In the era of cyber physical systems the area of control of complex systems has grown to be one of the hardest in terms of algorithmic design techniques and analytical tools The 23 chapters written by international specialists in the field cover a variety of interests within the broader field of learning adaptation optimization and networked control The editors have grouped these into the following 5 sections Introduction and Background on Control Theory Adaptive Control and Neuroscience Adaptive Learning Algorithms Cyber Physical Systems and Cooperative Control Applications The diversity of the research presented gives the reader a unique opportunity to explore a comprehensive overview of a field of great interest to control and system theorists This book is intended for researchers and control engineers in machine learning adaptive control optimization and automatic control systems including Electrical Engineers Computer Science Engineers Mechanical Engineers Aerospace Automotive Engineers and Industrial Engineers It could be used as a text or reference for advanced courses in complex control systems Collection of chapters from several well known professors and researchers that will showcase their recent work Presents different state of the art control approaches and theory for complex systems Gives algorithms that take into consideration the presence of modelling uncertainties the unavailability of the model the possibility of cooperative non cooperative goals and malicious attacks compromising the security of networked teams Real system examples and figures throughout make ideas concrete Includes

chapters from several well known professors and researchers that showcases their recent work Presents different state of the art control approaches and theory for complex systems Explores the presence of modelling uncertainties the unavailability of the model the possibility of cooperative non cooperative goals and malicious attacks compromising the security of networked teams Serves as a helpful reference for researchers and control engineers working with machine learning adaptive control and automatic control systems

Nonlinear and Adaptive Control Design Miroslav Krstic,Ioannis Kanellakopoulos,Petar V. Kokotovic,1995-06-14 Using a pedagogical style along with detailed proofs and illustrative examples this book opens a view to the largely unexplored area of nonlinear systems with uncertainties The focus is on adaptive nonlinear control results introduced with the new recursive design methodology adaptive backstepping Describes basic tools for nonadaptive backstepping design with state and output feedbacks

Learning-Based Adaptive Control Mouhacine Benosman,2016-08-02 Adaptive control has been one of the main problems studied in control theory The subject is well understood yet it has a very active research frontier This book focuses on a specific subclass of adaptive control namely learning based adaptive control As systems evolve during time or are exposed to unstructured environments it is expected that some of their characteristics may change This book offers a new perspective about how to deal with these variations By merging together Model Free and Model Based learning algorithms the author demonstrates using a number of mechatronic examples how the learning process can be shortened and optimal control performance can be reached and maintained Includes a good number of Mechatronics Examples of the techniques Compares and blends Model free and Model based learning algorithms Covers fundamental concepts state of the art research necessary tools for modeling and control

Fault Diagnosis and Fault-Tolerant Control Based on Adaptive Control Approach Qikun Shen,Bin Jiang,Peng Shi,2017-02-14 This book provides recent theoretical developments in and practical applications of fault diagnosis and fault tolerant control for complex dynamical systems including uncertain systems linear and nonlinear systems Combining adaptive control technique with other control methodologies it investigates the problems of fault diagnosis and fault tolerant control for uncertain dynamic systems with or without time delay As such the book provides readers a solid understanding of fault diagnosis and fault tolerant control based on adaptive control technology Given its depth and breadth it is well suited for undergraduate and graduate courses on linear system theory nonlinear system theory fault diagnosis and fault tolerant control techniques Further it can be used as a reference source for academic research on fault diagnosis and fault tolerant control and for postgraduates in the field of control theory and engineering

Energy, Information, Feedback, Adaptation, and Self-organization Spyros G Tzafestas,2018-01-03 This unique book offers a comprehensive and integrated introduction to the five fundamental elements of life and society energy information feedback adaptation and self organization It is divided into two parts Part I is concerned with energy definition history energy types energy sources environmental impact thermodynamics laws entropy definitions energy branches of thermodynamics entropy interpretations

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 Wei-Kang Chen,1992 **Mathematical Reviews** ,2005 Intelligent Adaptive Cooperative Control for Complex Nonlinear
 Systems Hongjing Liang,Liang Cao,Hong Xue,Yingnan Pan,2023-11-01 Intelligent Adaptive Cooperative Control for Complex

Nonlinear Systems introduces new intelligent adaptive control strategies for solving problems that occur in external disturbances faults communication burden input saturation dead zone and unmeasured states The book focuses on intelligent adaptive cooperative control for stochastic systems and semi Markov jump systems and systematically introduces basic theory and methods The valuable resource promotes the development of intelligent adaptive cooperative control for complex nonlinear systems and is a useful resource for researchers scholars engineering experts and graduate students in the field of intelligent control control and mathematics industrial mathematics mechatronics and engineering Covers intelligent adaptive control in both stochastic systems and semi markov jump systems introducing the basic theory and method of intelligent adaptive control systematically Presents an analysis of multiagent systems under external disturbances faults and communication burdens and develops disturbance compensation fault tolerant control and event triggered control strategies Helps users design adaptive compensation control technologies for complex dynamical systems with state constraint output constraint and error constraint

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