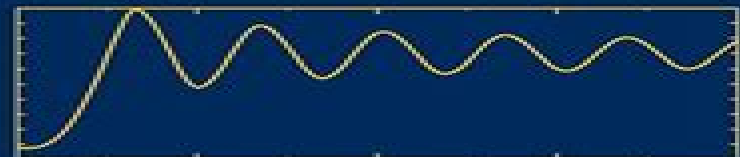


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Intelligent Systems Yung C. Shin, Chengying Xu, 2017-12-19 Providing a thorough introduction to the field of soft computing techniques *Intelligent Systems Modeling Optimization and Control* covers every major technique in artificial intelligence in a clear and practical style This book highlights current research and applications addresses issues encountered in the development of applied systems and describes a wide range of intelligent systems techniques including neural networks fuzzy logic evolutionary strategy and genetic algorithms The book demonstrates concepts through simulation examples and practical experimental results Case studies are also presented from each field to facilitate understanding

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

Stochastic Hybrid Systems Christos G. Cassandras, John Lygeros, 2018-10-03 Because they incorporate both time and event driven dynamics stochastic hybrid systems SHS have become ubiquitous in a variety of fields from mathematical finance to biological processes to communication networks to engineering Comprehensively integrating numerous cutting edge studies *Stochastic Hybrid Systems* presents a captivating treatment of some of the most ambitious types of dynamic systems Cohesively edited by leading experts in the field the book introduces the theoretical basics computational methods and applications of SHS It first discusses the underlying principles behind SHS and the main design limitations of SHS Building on these fundamentals the authoritative contributors present methods for computer calculations that apply SHS analysis and synthesis techniques in practice The book concludes with examples of systems encountered in a wide range of application areas including molecular biology communication networks and air traffic management It also explains how to resolve practical problems associated with these systems *Stochastic Hybrid Systems* achieves an ideal

balance between a theoretical treatment of SHS and practical considerations The book skillfully explores the interaction of physical processes with computerized equipment in an uncertain environment enabling a better understanding of sophisticated as well as everyday devices and processes Deterministic Learning Theory for Identification, Recognition, and Control Cong Wang, David J. Hill, 2018-10-03 Deterministic Learning Theory for Identification Recognition and Control presents a unified conceptual framework for knowledge acquisition representation and knowledge utilization in uncertain dynamic environments It provides systematic design approaches for identification recognition and control of linear uncertain systems Unlike many books currently available that focus on statistical principles this book stresses learning through closed loop neural control effective representation and recognition of temporal patterns in a deterministic way A Deterministic View of Learning in Dynamic Environments The authors begin with an introduction to the concepts of deterministic learning theory followed by a discussion of the persistent excitation property of RBF networks They describe the elements of deterministic learning and address dynamical pattern recognition and pattern based control processes The results are applicable to areas such as detection and isolation of oscillation faults ECG EEG pattern recognition robot learning and control and security analysis and control of power systems A New Model of Information Processing This book elucidates a learning theory which is developed using concepts and tools from the discipline of systems and control Fundamental knowledge about system dynamics is obtained from dynamical processes and is then utilized to achieve rapid recognition of dynamical patterns and pattern based closed loop control via the so called internal and dynamical matching of system dynamics This actually represents a new model of information processing i e a model of dynamical parallel distributed processing DPDP

Optimal Control Zoran Gajic, Myo-Taeg Lim, Dobrila Skataric, Wu-Chung Su, Vojislav Kecman, 2018-10-03 Unique in scope Optimal Control Weakly Coupled Systems and Applications provides complete coverage of modern linear bilinear and nonlinear optimal control algorithms for both continuous time and discrete time weakly coupled systems using deterministic as well as stochastic formulations This book presents numerous applications to real world systems from various industries including aerospace and discusses the design of subsystem level optimal filters Organized into independent chapters for easy access to the material this text also contains several case studies examples exercises computer assignments and formulations of research problems to help instructors and students **Autonomous Mobile Robots** Frank L. Lewis, Shuzhi Sam Ge, 2018-10-03 It has long been the goal of engineers to develop tools that enhance our ability to do work increase our quality of life or perform tasks that are either beyond our ability too hazardous or too tedious to be left to human efforts Autonomous mobile robots are the culmination of decades of research and development and their potential is seemingly unlimited Roadmap to the Future Serving as the first comprehensive reference on this interdisciplinary technology Autonomous Mobile Robots Sensing Control Decision Making and Applications authoritatively addresses the theoretical technical and practical aspects of the field The book examines in detail the key components that form an autonomous mobile robot from sensors and

sensor fusion to modeling and control map building and path planning and decision making and autonomy and to the final integration of these components for diversified applications

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Fuzzy Controller Design Zdenko Kovacic, Stjepan Bogdan, 2018-10-08 Fuzzy control methods are critical for meeting the demands of complex nonlinear systems They bestow robust adaptive and self correcting character to complex systems that demand high stability and functionality beyond the capabilities of traditional methods A thorough treatise on the theory of fuzzy logic control is out of place on the design bench That is why *Fuzzy Controller Design Theory and Applications* offers laboratory and industry tested algorithms techniques and formulations of real world problems for immediate implementation With surgical precision the authors carefully select the fundamental elements of fuzzy logic control theory necessary to formulate effective and efficient designs The book supplies a springboard of knowledge punctuated with examples worked out in MATLAB SIMULINK from which newcomers to the field can dive directly into applications It systematically covers the design of hybrid adaptive and self learning fuzzy control structures along with strategies for fuzzy controller design suitable for on line and off line operation Examples occupy an entire chapter with a section devoted to the simulation of an electro hydraulic servo system The final chapter explores industrial applications with emphasis on techniques for fuzzy controller implementation and different implementation platforms for various applications With proven methods based on more than a decade of experience *Fuzzy Controller Design Theory and Applications* is a concise guide to the methodology design steps and formulations for effective control solutions

Linear Control Theory Shankar P. Bhattacharyya, Aniruddha Datta, Lee H. Keel, 2018-10-03 Successfully classroom tested at the graduate level *Linear Control Theory Structure Robustness and Optimization* covers three major areas of control engineering PID control robust control and optimal control It provides balanced coverage of elegant mathematical theory and useful engineering oriented results The first part of the book develops results relating to the design of PID and first order controllers for continuous and discrete time linear systems with possible delays The second section deals with the robust stability and performance of systems under parametric and unstructured uncertainty This section describes several elegant and sharp results such as Kharitonov's theorem and its extensions the edge theorem and the mapping theorem Focusing on the optimal control of linear systems the third part discusses the standard theories of the linear quadratic regulator H_∞ and H_1 optimal control and associated results Written by recognized leaders in the field this book explains how control theory can be applied to the design of real world systems It shows that the techniques of three term controllers along with the results on

robust and optimal control are invaluable to developing and solving research problems in many areas of engineering

Intelligent Freight Transportation Petros A. Ioannou, 2008-03-24 Increasing capacity at ports and goods movement in the supply chain in general while also satisfying environmental economic political labor union and other constraints is arguably the greatest challenge of modern transportation With space at a premium and costs through the roof it is increasingly obvious that the traditional solutions are *Neural Network Control of Nonlinear Discrete-Time Systems* Jagannathan Sarangapani, 2018-10-03 Intelligent systems are a hallmark of modern feedback control systems But as these systems mature we have come to expect higher levels of performance in speed and accuracy in the face of severe nonlinearities disturbances unforeseen dynamics and unstructured uncertainties Artificial neural networks offer a combination of adaptability parallel processing and learning capabilities that outperform other intelligent control methods in more complex systems Borrowing from Biology Examining neurocontroller design in discrete time for the first time Neural Network Control of Nonlinear Discrete Time Systems presents powerful modern control techniques based on the parallelism and adaptive capabilities of biological nervous systems At every step the author derives rigorous stability proofs and presents simulation examples to demonstrate the concepts Progressive Development After an introduction to neural networks dynamical systems control of nonlinear systems and feedback linearization the book builds systematically from actuator nonlinearities and strict feedback in nonlinear systems to nonstrict feedback system identification model reference adaptive control and novel optimal control using the Hamilton Jacobi Bellman formulation The author concludes by developing a framework for implementing intelligent control in actual industrial systems using embedded hardware Neural Network Control of Nonlinear Discrete Time Systems fosters an understanding of neural network controllers and explains how to build them using detailed derivations stability analysis and computer simulations **System Dynamics** Dean C. Karnopp, Donald L. Margolis, Ronald C. Rosenberg, 1990-09-04 Very Good No Highlights or Markup all pages are intact *The Proceedings of the 2003 International Conference on Bond Graph Modeling and Simulation (ICBGM 2003), Orlando, Florida, Marriott Orlando Airport, January 19-23, 2003* Society for Modeling and Simulation International, 2002 *Optimal and Robust Estimation* Frank L. Lewis, Lihua Xie, Dan Popa, 2008 More than a decade ago world renowned control systems authority Frank L Lewis introduced what would become a standard textbook on estimation under the title Optimal Estimation used in top universities throughout the world The time has come for a new edition of this classic text and Lewis enlisted the aid of two accomplished experts to bring the book completely up to date with the estimation methods driving today s high performance systems A Classic Revisited Optimal and Robust Estimation With an Introduction to Stochastic Control Theory Second Edition reflects new developments in estimation theory and design techniques As the title suggests the major feature of this edition is the inclusion of robust methods Three new chapters cover the robust Kalman filter H infinity filtering and H infinity filtering of discrete time systems Modern Tools for Tomorrow s Engineers This text overflows with examples that

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Proceedings of the 2001 International Conference on Bond Graph Modeling and Simulation (ICBGM '01), Phoenix, Arizona, Crowne Plaza Hotel, January 7-11, 2001 José Joaquin Granda,G. Dauphin-Tanguy,2001 **Proceedings of the ... European Simulation Multiconference** ,1994 **Physical Structure in Systems Theory** J. J. van Dixhoorn,F. J. Evans,1974 **CommonKADS Library for Expertise Modelling** Joost Breuker,Walter Van de Velde,1994

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