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Positive 1D and 2D Systems Tadeusz Kaczorek, 2002 This text is devoted to the positive multivariable 1D and 2D linear time invariant finite dimensional system The book is based on the author's lectures for Ph D students delivered at Warsaw University of Technology in the academic year 1999-2000 The book consists of two parts the first part is devoted to the 1D positive linear systems and the second to the 2D positive linear systems described by the Rosser model and the Fornasini Marchesini models Definitions basic properties and theorems concerning positive matrices and graphs are presented the externally and internally positive linear continuous time and discrete time linear systems are considered and the reachability controllability and observability of positive linear systems are discussed The realisation problem for positive 1D and 2D systems is also considered and the 2D models of externally and internally positive and their properties and controllability and minimum energy control of positive 2D systems are investigated *Selected Problems of Fractional Systems Theory*

Tadeusz Kaczorek, 2011-05-10 This monograph covers some selected problems of positive fractional 1D and 2D linear systems It is an extended and modified English version of its preceding Polish edition published by Technical University of Bialystok in 2009 This book is based on the lectures delivered by the author to the Ph D students of the Faculty of Electrical Engineering of Bialystok University of Technology and of Warsaw University of Technology and on invited lectures in several foreign universities in the last three years Positive Systems: Theory and Applications Luca Benvenuti, Alberto de

Santis, Lorenzo Farina, 2003-07-25 The proceedings of the First Multidisciplinary International Symposium on Positive Systems Theory and Applications POSTA 2003 held in Rome Italy August 28-30 2003 Positive Systems are systems in which the relevant variables assume nonnegative values These systems are quite common in applications where variables represent positive quantities such as populations goods money time data packets flowing in a network densities of chemical species probabilities etc The aim of the symposium was to join together researchers working in the different areas related to positive systems such as telecommunications economy biomedicine chemistry and physics in order to provide a multidisciplinary forum where they have the opportunity to exchange ideas and compare results in a unifying framework **Adaptive and**

Natural Computing Algorithms Andrej Dobnikar, Uroš Lotric, Branko Šter, 2011-04-09 The two volume set LNCS 6593 and 6594 constitutes the refereed proceedings of the 10th International Conference on Adaptive and Natural Computing Algorithms ICANNGA 2010 held in Ljubljana Slovenia in April 2010 The 83 revised full papers presented were carefully reviewed and selected from a total of 144 submissions The second volume includes 41 papers organized in topical sections on pattern recognition and learning soft computing systems theory support vector machines and bioinformatics **Positive**

Systems Filippo Cacace, Lorenzo Farina, Roberto Setola, Alfredo Germani, 2017-04-01 This book presents high quality original contributions on positive systems including topics such as monotone dynamical systems in mathematical biology and game theory mathematical developments for networked systems in biology chemistry and the social sciences linear and nonlinear

positive operators dynamical analysis observation and control of positive distributed parameter systems stochastic realization theory biological systems with positive variables and positive controls iterated function systems nonnegative dynamic processes and dimensioning problems for collaborative systems The book comprises a selection of the best papers presented at the POSTA 2016 the 5th International Symposium on Positive Systems which was held in Rome Italy in September 2016 This conference series represents a targeted response to the growing need for research that reports on and critically discusses a wide range of topics concerning the theory and applications of positive systems *Recent Advances in Automation, Robotics and Measuring Techniques* Roman Szewczyk, Cezary Zieliński, Małgorzata Kaliczyńska, 2014-07-08 This book presents the recent advances and developments in control automation robotics and measuring techniques It presents contributions of top experts in the fields focused on both theory and industrial practice The particular chapters present a deep analysis of a specific technical problem which is in general followed by a numerical analysis and simulation and results of an implementation for the solution of a real world problem The book presents the results of the International Conference AUTOMATION 2014 held 26-28 March 2014 in Warsaw Poland on Automation Innovations and Future Prospectives The presented theoretical results practical solutions and guidelines will be useful for both researchers working in the area of engineering sciences and for practitioners solving industrial problems *Environmental Health Risk IV* C. A. Brebbia, 2007 Health problems related to the environment have become a major source of concern all over the world The health of the population depends upon good quality air water soil food and many other factors The aim of society is to establish measures that can eliminate or considerably reduce factors hazardous to the human environment to minimize the associated health risks The ability to achieve these objectives is greatly dependant on the development of suitable experimental modelling and interpretive techniques which allow a balanced assessment of the risk involved as well as suggesting ways in which the situation can be improved The interaction between environmental risk and health is often complex and can involve a variety of social occupational and lifestyle factors This emphasizes the importance of considering an interdisciplinary approach Containing papers presented at the Fourth International Conference on The Impact of Environmental Factors on Health The topics discussed will be of interest to a wide readership including health specialists in government and industry as well as researchers involved within the broad area of environmental health risk Featured topics include Risk Analysis Air Pollution Water quality issues Electromagnetic Fields Food contamination Occupational Health Remediation Social and Economic Issues Housing and Health Radiation Fields Education and Training Accident and man made risks *Marine Navigation and Safety of Sea Transportation* Adam Weintrit, 2009-06-02 In recent years much attention has been paid to safety of navigation and marine transportation Marine Navigation and Safety of Sea Transportation addresses the main aspects of marine safety including safety of navigation manoeuvring and ship handling systems marine traffic control and automatic identification systems navigation tools system *System Engineering Approach to Planning Anticancer Therapies* Andrzej

Świerniak, Marek Kimmel, Jarosław Smieja, Krzysztof Puszynski, Krzysztof Psiuk-Maksymowicz, 2016-05-19 This book focuses on the analysis of cancer dynamics and the mathematically based synthesis of anticancer therapy. It summarizes the current state of the art in this field and clarifies common misconceptions about mathematical modeling in cancer. Additionally, it encourages closer cooperation between engineers, physicians, and mathematicians by showing the clear benefits of this without stating unrealistic goals. Development of therapy protocols is realized from an engineering point of view, such as the search for a solution to a specific control optimization problem. Since in the case of cancer patients consecutive measurements providing information about the current state of the disease are not available, the control laws are derived for an open loop structure. Different forms of therapy are incorporated into the models: from chemotherapy and antiangiogenic therapy to immunotherapy and gene therapy, but the class of models introduced is broad enough to incorporate other forms of therapy as well. The book begins with an analysis of cell cycle control, moving on to control effects on cell population and structured models, and finally the signaling pathways involved in carcinogenesis and their influence on therapy outcome. It also discusses the incorporation of intracellular processes using signaling pathway models, since the successful treatment of cancer based on analysis of intracellular processes might soon be a reality. It brings together various aspects of modeling anticancer therapies, which until now have been distributed over a wide range of literature. Written for researchers and graduate students interested in the use of mathematical and engineering tools in biomedicine, with special emphasis on applications in cancer diagnosis and treatment, this self-contained book can be easily understood with only a minimal basic knowledge of control and system engineering methods as well as the biology of cancer. Its interdisciplinary character and the authors' extensive experience in cooperating with clinicians and biologists make it interesting reading for researchers from control and system engineering looking for applications of their knowledge. Systems and molecular biologists as well as clinicians will also find new inspiration for their research.

New Trends in Nanotechnology and Fractional Calculus

Applications Dumitru Baleanu, Ziya B. Guvenc, J.A. Tenreiro Machado, 2010-03-14 In recent years, fractional calculus has played an important role in various fields such as mechanics, electricity, chemistry, biology, economics, modeling, identification, control theory, and signal processing. The scope of this book is to present the state of the art in the study of fractional systems and the application of fractional differentiation. Furthermore, the manufacture of nanowires is important for the design of nanosensors, and the development of high yield thin films is vital in procuring clean solar energy. This wide range of applications is of interest to engineers, physicists, and mathematicians.

[Recent Advances in Operator Theory and Its Applications](#) Marinus A. Kaashoek, Sebastiano Seatzu, Cornelis van der Mee, 2006-01-17 This book contains a selection of carefully refereed research papers, most of which were presented at the fourteenth International Workshop on Operator Theory and its Applications (IWOTA) held at Cagliari, Italy, from June 24-27, 2003. The papers, many of which have been written by leading experts in the field, concern a wide variety of topics in modern operator theory and applications, with emphasis on

differential operators and numerical methods The book will be of interest to a wide audience of pure and applied mathematicians and engineers

Automation 2017 Roman Szewczyk,Cezary Zieliński,Małgorzata Kaliczyńska,2017-02-28 This book consists of papers presented at Automation 2017 an international conference held in Warsaw from March 15 to 17 2017 It discusses research findings associated with the concepts behind INDUSTRY 4 0 with a focus on offering a better understanding of and promoting participation in the Fourth Industrial Revolution Each chapter presents a detailed analysis of a specific technical problem in most cases followed by a numerical analysis simulation and description of the results of implementing the solution in a real world context The theoretical results practical solutions and guidelines presented are valuable for both researchers working in the area of engineering sciences and practitioners looking for solutions to industrial problems

Controllability and Minimum Energy Control Jerzy Klamka,2018-06-01 The book offers a comprehensive overview of controllability problems and minimum energy control for broad classes of dynamical systems including linear semilinear and nonlinear systems which are important for modeling systems in automatic control electrical engineering mechanics and informatics It develops the theory of controllability for both finite and infinite dimensional dynamical systems described by differential state equation and studies in detail functional analysis and matrix algebra which provide essential and effective tools for the new solutions of a number of important controllability problems The theoretical results are illustrated by examples throughout the book Primarily intended for academic researchers working in mathematical control theory the self contained text is easily accessible and particularly interesting for control engineering and applied mathematics graduates

Discontinuous Systems Yury V. Orlov,2008-10-28 Discontinuous Systems develops nonsmooth stability analysis and discontinuous control synthesis based on novel modeling of discontinuous dynamic systems operating under uncertain conditions While being primarily a research monograph devoted to the theory of discontinuous dynamic systems no background in discontinuous systems is required such systems are introduced in the book at the appropriate conceptual level Being developed for discontinuous systems the theory is successfully applied to their subclasses variable structure and impulsive systems as well as to finite and infinite dimensional systems such as distributed parameter and time delay systems The presentation concentrates on algorithms rather than on technical implementation although theoretical results are illustrated by electromechanical applications These specific applications complete the book and together with the introductory theoretical constituents bring some elements of the tutorial to the text

Progress in Automation, Robotics and Measuring Techniques Roman Szewczyk,Cezary Zieliński,Małgorzata Kaliczyńska,2015-03-09 This book presents recent progresses in control automation robotics and measuring techniques It includes contributions of top experts in the fields focused on both theory and industrial practice The particular chapters present a deep analysis of a specific technical problem which is in general followed by a numerical analysis and simulation and results of an implementation for the solution of a real world problem The presented theoretical results practical solutions and guidelines will be useful for both

researchers working in the area of engineering sciences and for practitioners solving industrial problems

Control of Nonlinear Dynamical Systems Felix L. Chernous'ko, I. M. Ananievski, S. A. Reshmin, 2008-09-26 This book is devoted to new methods of control for complex dynamical systems and deals with nonlinear control systems having several degrees of freedom subjected to unknown disturbances and containing uncertain parameters Various constraints are imposed on control inputs and state variables or their combinations The book contains an introduction to the theory of optimal control and the theory of stability of motion and also a description of some known methods based on these theories Major attention is given to new methods of control developed by the authors over the last 15 years Mechanical and electromechanical systems described by nonlinear Lagrange's equations are considered General methods are proposed for an effective construction of the required control often in an explicit form The book contains various techniques including the decomposition of nonlinear control systems with many degrees of freedom piecewise linear feedback control based on Lyapunov's functions methods which elaborate and extend the approaches of the conventional control theory optimal control differential games and the theory of stability The distinctive feature of the methods developed in the book is that the controls obtained satisfy the imposed constraints and steer the dynamical system to a prescribed terminal state in finite time Explicit upper estimates for the time of the process are given In all cases the control algorithms and the estimates obtained are strictly proven

Digital Control Systems Ioan Doré Landau, Gianluca Zito, 2007-05-11 The extraordinary development of digital computers microprocessors microcontrollers and their extensive use in control systems in all fields of applications has brought about important changes in the design of control systems Their performance and their low cost make them suitable for use in control systems of various kinds which demand far better capabilities and performances than those provided by analog controllers However in order really to take advantage of the capabilities of microprocessors it is not enough to reproduce the behavior of analog PID controllers One needs to implement specific and high performance model based control techniques developed for computer controlled systems techniques that have been extensively tested in practice In this context identification of a plant dynamic model from data is a fundamental step in the design of the control system The book takes into account the fact that the association of books with software and on line material is radically changing the teaching methods of the control discipline Despite its interactive character computer aided control design software requires the understanding of a number of concepts in order to be used efficiently The use of software for illustrating the various concepts and algorithms helps understanding and rapidly gives a feeling of the various phenomena

Passivity-based Control of Euler-Lagrange Systems Romeo Ortega, Julio Antonio Loria Perez, Per Johan Nicklasson, Hebertt Sira-Ramirez, 1998-09-16 The essence of this work is the control of electromechanical systems such as manipulators electric machines and power converters The common thread that links together the results presented here is the passivity property which is at present in numerous electrical and mechanical systems and which has great relevance in control engineering at this time Amongst other topics the authors cover Euler

Lagrange Systems Mechanical Systems Generalised AC Motors Induction Motor Control Robots with AC Drives and Perspectives and Open Problems The authors have extensive experience of research and application in the field of control of electromechanical systems which they have summarised here in this self contained volume While written in a strictly mathematical way it is also elementary and will be accessible to a wide ranging audience including graduate students as well as practitioners and researchers in this field Control of Singular Systems with Random Abrupt Changes El-Kébir Boukas,2008-01-12 This book deals with the class of singular systems with random abrupt changes also known as singular Markovian jump systems Various problems and their robustness are tackled The book examines both the theoretical and practical aspects of the control problems from the angle of the structural properties of linear systems It can be used as a textbook as well as a reference for researchers in control or mathematics with interest in control theory **Multivariable Computer-controlled Systems** Efim N. Rosenwasser,Bernhard P. Lampe,2006-09-07 In this book the authors extend the parametric transfer function methods which incorporate time dependence to the idea of the parametric transfer matrix in a complete exposition of analysis and design methods for multiple input multiple output MIMO sampled data systems Appendices covering basic mathematical formulae two MATLAB toolboxes round out this self contained guide to multivariable control systems The book will interest researchers in automatic control and to development engineers working with advanced control technology

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