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2 (Chapman & Hall/CRC
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Singular Systems Of Differential Equations Research Notes In Mathematics

Michal Rosen-Zvi



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Differential-Algebraic Equations: A Projector Based Analysis René Lamour,Roswitha März,Caren Tischendorf,2013-01-19

Differential algebraic equations DAEs including so called descriptor systems began to attract significant research interest in applied and numerical mathematics in the early 1980s no more than about three decades ago In this relatively short time DAEs have become a widely acknowledged tool to model processes subjected to constraints in order to simulate and to control processes in various application fields such as network simulation chemical kinematics mechanical engineering system biology DAEs and their more abstract versions in infinite dimensional spaces comprise a great potential for future mathematical modeling of complex coupled processes The purpose of the book is to expose the impressive complexity of general DAEs from an analytical point of view to describe the state of the art as well as open problems and so to motivate further research to this versatile extra ordinary topic from a broader mathematical perspective The book elaborates a new general structural analysis capturing linear and nonlinear DAEs in a hierarchical way The DAE structure is exposed by means of special projector functions Numerical integration issues and computational aspects are treated also in this context

Descriptor Systems of Integer and Fractional Orders Tadeusz Kaczorek,Kamil Borawski,2021-04-13 This book covers some selected problems of the descriptor integer and fractional order positive continuous time and discrete time systems The book consists of 3 chapters 4 appendices and the list of references Chapter 1 is devoted to descriptor integer order continuous time and discrete time linear systems In Chapter 2 descriptor fractional order continuous time and discrete time linear systems are considered Chapter 3 is devoted to the stability of descriptor continuous time and discrete time systems of integer and fractional orders In Appendix A extensions of the Cayley Hamilton theorem for descriptor linear systems are given Some methods for computation of the Drazin inverse are presented in Appendix B In Appendix C some basic definitions and theorems on Laplace transforms and Z transforms are given Some properties of the nilpotent matrices are given in Appendix D

Gröbner Bases in Symbolic Analysis Markus Rosenkranz,Dongming Wang,2011-12-22 This volume contains survey articles and original research papers presenting the state of the art on applying the symbolic approach of Gröbner bases and related methods to differential and difference equations The contributions are based on talks delivered at the Special Semester on Gröbner Bases and Related Methods hosted by the Johann Radon Institute of Computational and Applied Mathematics Linz Austria in May 2006

The Realization Problem for Positive and Fractional Systems Tadeusz Kaczorek,Lukasz Sajewski,2014-02-06 This book addresses the realization problem of positive and fractional continuous time and discrete time linear systems Roughly speaking the essence of the realization problem can be stated as follows Find the

matrices of the state space equations of linear systems for given their transfer matrices This first book on this topic shows how many well known classical approaches have been extended to the new classes of positive and fractional linear systems The modified Gilbert method for multi input multi output linear systems the method for determination of realizations in the controller canonical forms and in observer canonical forms are presented The realization problem for linear systems described by differential operators the realization problem in the Weierstrass canonical forms and of the descriptor linear systems for given Markov parameters are addressed The book also presents a method for the determination of minimal realizations of descriptor linear systems and an extension for cone linear systems This monographs summarizes recent original investigations of the authors in the new field of the positive and fractional linear systems

Analytic Perturbation Theory and Its Applications Konstantin E. Avrachenkov, Jerzy A. Filar, Phil G. Howlett, 2013-12-11 Mathematical models are often used to describe complex phenomena such as climate change dynamics stock market fluctuations and the Internet These models typically depend on estimated values of key parameters that determine system behavior Hence it is important to know what happens when these values are changed The study of single parameter deviations provides a natural starting point for this analysis in many special settings in the sciences engineering and economics The difference between the actual and nominal values of the perturbation parameter is small but unknown and it is important to understand the asymptotic behavior of the system as the perturbation tends to zero This is particularly true in applications with an apparent discontinuity in the limiting behavior the so called singularly perturbed problems Analytic Perturbation Theory and Its Applications includes a comprehensive treatment of analytic perturbations of matrices linear operators and polynomial systems particularly the singular perturbation of inverses and generalized inverses It also offers original applications in Markov chains Markov decision processes optimization and applications to Google PageRank and the Hamiltonian cycle problem as well as input retrieval in linear control systems and a problem section in every chapter to aid in course preparation

Automatic Control, Robotics, and Information Processing Piotr Kulczycki, Józef Korbicz, Janusz Kacprzyk, 2020-09-03 This book presents a wide and comprehensive range of issues and problems in various fields of science and engineering from both theoretical and applied perspectives The desire to develop more effective and efficient tools and techniques for dealing with complex processes and systems has been a natural inspiration for the emergence of numerous fields of science and technology in particular control and automation and more recently robotics The contributions gathered here concern the development of methods and algorithms to determine best practices regarding broadly perceived decisions or controls From an engineering standpoint many of them focus on how to automate a specific process or complex system From a tools based perspective several contributions address the development of analytic and algorithmic methods and techniques devices and systems that make it possible to develop and subsequently implement the automation and robotization of crucial areas of human activity All topics discussed are illustrated with sample applications

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Trajectory Tracking of Nonlinear Dynamical Systems Jakob Löber, 2016-12-20 By establishing an alternative foundation of control theory this thesis represents a significant advance in the theory of control systems of interest to a broad range of scientists and engineers While common control strategies for dynamical systems center on the system state as the object to be controlled the approach developed here focuses on the state trajectory The concept of precisely realizable trajectories identifies those trajectories that can be accurately achieved by applying appropriate control signals The resulting simple expressions for the control signal lend themselves to immediate application in science and technology The approach permits the generalization of many well known results from the control theory of linear systems e g the Kalman rank condition to nonlinear systems The relationship between controllability optimal control and trajectory tracking are clarified Furthermore the existence of linear structures underlying nonlinear optimal control is revealed enabling the derivation of exact analytical solutions to an entire class of nonlinear optimal trajectory tracking problems The clear and self contained presentation focuses on a general and mathematically rigorous analysis of controlled dynamical systems The concepts developed are visualized with the help of particular dynamical systems motivated by physics and chemistry Automation 2018 Roman Szewczyk, Cezary Zieliński, Małgorzata Kaliczyńska, 2018-03-07 This book consists of papers presented at Automation 2018 an international conference held in Warsaw from March 21 to 23 2018 It discusses the radical technological changes occurring due to the INDUSTRY 4 0 with a focus on offering a better understanding of the Fourth Industrial Revolution Each chapter presents a detailed analysis of interdisciplinary knowledge numerical modeling and simulation as well as the application of cyber physical systems where information technology and physical devices create synergic systems leading to unprecedented efficiency 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 Journal of Dynamic Systems, Measurement, and Control, 2004 Publishes theoretical and applied original papers in dynamic systems Theoretical papers present new theoretical developments and knowledge for controls of dynamical systems together with clear engineering motivation for the new theory Applied papers include modeling simulation and corroboration of theory with emphasis on demonstrated practicality SIAM Journal on Algebraic and Discrete Methods Society for Industrial and Applied Mathematics, 1986 **SIAM Journal on Control and Optimization** Society for Industrial and Applied Mathematics, 1976 Contains research articles on the mathematics and applications of control theory and on those parts of optimization theory concerned with the dynamics of deterministic or stochastic systems in continuous or discrete time or otherwise dealing with differential equations dynamics infinite dimensional spaces or fundamental issues in variational analysis and geometry *Lecture Notes in Pure and Applied Mathematics*, 1987 **The American Mathematical Monthly**, 1983 **Seminarberichte**, 1992 **Implicit Linear Systems** J.Dwight Aplevich, 1991-03-20 These notes are an introduction to implicit models of linear dynamical systems with applications to modelling control system design and

identification intended for control system engineers at the beginning graduate level. Because they are non-oriented, the models are particularly useful where causality is unknown or may change. They are implicit in all variables and closed under the algebraic operations and hence are useful for computer-aided analysis and design. They possess the vector-matrix conceptual simplicity and computational feasibility of state-space equations together with the generality of matrix-fraction descriptions and admit of canonical forms for which the joint identification of system parameters and dynamic variables is linear. The notes simplify, generalize, and complement much recent work on singular or descriptor models but do not duplicate it. Sections are included on realizations, canonical forms, minimal representations, algebraic design applications, quadratic optimization, identification, large-scale systems, and extensions to multi-dimensional and time-varying systems.

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