Guang-Ren Duan

Analysis and Design of Descriptor Linear Systems

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Ye Wang

Analysis And Design Of Descriptor Linear Systems:

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well as application of artificial intelligence techniques required by the transformation of the industry towards the Industry 4 0 We strongly believe that the solutions and guidelines presented in this volume will be useful for both researchers and engineers solving problems that have emerged during the recent crisis   Trends in Advanced Intelligent Control, Optimization and Automation Wojciech Mitkowski,Janusz Kacprzyk,Krzysztof Oprzędkiewicz,Paweł Skruch,2017-06-06 This volume contains the proceedings of the KKA 2017 the 19th Polish Control Conference organized by the Department of Automatics and Biomedical Engineering AGH University of Science and Technology in Krak w Poland on June 18 21 2017 under the auspices of the Committee on Automatic Control and Robotics of the Polish Academy of Sciences and the Commission for Engineering Sciences of the Polish Academy of Arts and Sciences Part 1 deals with general issues of modeling and control notably flow modeling and control sliding mode predictive dual etc control In turn Part 2 focuses on optimization estimation and prediction for control Part 3 is concerned with autonomous vehicles while Part 4 addresses applications Part 5 discusses computer methods in control and Part 6 examines fractional order calculus in the modeling and control of dynamic systems Part 7 focuses on modern robotics Part 8 deals with modeling and identification while Part 9 deals with problems related to security fault detection and diagnostics Part 10 explores intelligent systems in automatic control and Part 11 discusses the use of control tools and techniques in biomedical engineering Lastly Part 12 considers engineering education and teaching with regard to automatic control and robotics   Theoretical Developments and Applications of Non-Integer Order Systems Stefan Domek,Paweł Dworak,2015-08-20 This volume is devoted to presentation of new results of research on systems of non integer order called also fractional systems Their analysis and practical implementation have been the object of spontaneous development for a few last decades The fractional order models can depict a physical plant better than the classical integer order ones This covers different research fields such as insulator properties visco elastic materials electrodynamic electrothermal electrochemical economic processes modelling etc On the other hand fractional controllers often outperform their integer order counterparts This volume contains new ideas and examples of implementation theoretical and pure practical aspects of using a non integer order calculus It is divided into four parts covering mathematical fundamentals modeling and approximations controllability observability and stability problems and practical applications of fractional control systems The first part expands the base of tools and methods of the mathematical basis for non integer order calculus Part two focuses on new methods and developments in process modeling and fractional derivatives approximations In the third part a bunch of papers which raise problems of controllability observability and stability of non integer order systems is provided Part four is devoted to presentation of different fractional order control applications This book was created thanks to many experts in the field of fractional calculus authors anonymous referees whose comments allowed us to improve the final form of the papers and active and inspiring discussion of the participants of RRNR 2015 the 7th Conference on Non Integer Order Calculus and Its Applications that was organized by the

Faculty of Electrical Engineering West Pomeranian University of Technology Szczecin Poland **Proceedings of 19th Latin American Control Congress (LACC 2022)** Orestes Llanes-Santiago,2023-05-09 This book presents the main results of the 19th Latin American Congress of Automatic Control held in November 2022 in Havana Cuba The Congress showed several main research results obtained by researchers from diverse countries in the last four years Of the papers sent to Congress 28 were finally accepted for presentation after a rigorous analysis of scientific novelty and quality For their presentation in this book the papers were divided into 5 major sections that appear in the following order Part 1 Robust and Nonlinear Control The main research topics addressed in this part are related to fault tolerant control loops control by sliding modes and robust tuning of PID controllers Examples of electrical motors and chemical processes are used to demonstrate the feasibility of using the proposed techniques Part 2 Fault Diagnosis in Industrial Systems Fault diagnosis in industrial plants is a very important topic in the Industry 4 0 paradigm In this part new techniques of fault diagnosis in mechanical systems using Poincar features a real case study for predicting the time of the remaining job cycle at a water treatment plant and a predictive fault diagnosis for isolated photovoltaic systems are presented A novel methodology for detecting and locating cyber attacks in water distribution networks using computational intelligence tools is also presented Part 3 Robotic and Autonomous Systems New control strategies for path following for autonomous tractors and unmanned aquatic vehicles are analyzed in this part Moreover the important topic related to the battery health aware model predictive control planning for autonomous racing vehicles and the use of robots for monitoring and remediation applications are examined Part 4 Modeling Identification and Delayed Systems A model based methodology for the efficient selection of centrifugal pumps the use of probabilistic Boolean networks in smart grid models the utilization of PSO metaheuristic algorithm in the selection of a model structure and two schemes to control high order delayed systems are among the main topics examined in this part Part 5 Low Cost Systems and Biomedical Applications In this part some applications of low cost monitoring and control systems and two automatic systems used for the characterization of creatinine in wastes samples during hemodialysis process and differential acquisition of blood pressure are shown **Generalized Sylvester Equations** Guang-Ren Duan,2015-06-09 Provides One Unified Formula That Gives Solutions to Several Types of GSEsGeneralized Sylvester equations GSEs are applied in many fields including applied mathematics systems and control and signal processing Generalized Sylvester Equations Unified Parametric Solutions presents a unified parametric approach for solving various types of GSEs **Control of Discrete-Time Descriptor Systems** Alexey A. Belov,Olga G. Andrianova,Alexander P. Kurdyukov,2018-04-25 Control of Discrete Time Descriptor Systems takes an anisotropy based approach to the explanation of random input disturbance with an information theoretic representation It describes the random input signal more precisely and the anisotropic norm minimization included in the book enables readers to tune their controllers better through the mathematical methods provided The book contains numerous examples of practical applications of descriptor systems in

various fields from robotics to economics and presents an information theoretic approach to the mathematical description of coloured noise Anisotropy based analysis and design for descriptor systems is supplied along with proofs of basic statements which help readers to understand the algorithms proposed and to undertake their own numerical simulations This book serves as a source of ideas for academic researchers and postgraduate students working in the control of discrete time systems The control design procedures outlined are numerically effective and easily implementable in MATLAB **Linear Systems Theory** Ben M. Chen,Zongli Lin,Yacov Shamash,2012-12-06 Structural properties play an important role in our understanding of linear systems in the state space representation The structural canonical form representation of linear systems not only reveals the structural properties but also facilitates the design of feedback laws that meet various control objectives In particular it decomposes the system into various subsystems These subsystems along with the interconnections that exist among them clearly show the structural properties of the system The simplicity of the subsystems and their explicit interconnections with each other lead us to a deeper insight into how feedback control would take effect on the system and thus to the explicit construction of feedback laws that meet our design specifications The discovery of structural canonical forms and their applications in feedback design for various performance specifications has been an active area of research for a long time The effectiveness of the structural decomposition approach has also been extensively explored in nonlinear systems and control theory in the recent past The aim of this book is to systematically present various canonical represen tations of the linear system that explicitly reveal different structural properties of the system and to report on some recent developments on its utilization in sys tem analysis and design **Advances in State Estimation, Diagnosis and Control of Complex Systems** Ye Wang,2020-07-30 This book presents theoretical and practical findings on the state estimation diagnosis and control of complex systems especially in the mathematical form of descriptor systems The research is fully motivated by real world applications i e Barcelona s water distribution network which require control systems capable of taking into account their specific features and the limits of operations in the presence of uncertainties stemming from modeling errors and component malfunctions Accordingly the book first introduces a complete set based framework for explicitly describing the effects of uncertainties in the descriptor systems discussed In turn this set based framework is used for state estimation and diagnosis The book also presents a number of application results on economic model predictive control from actual water distribution networks and smart grids Moreover the book introduces a fault tolerant control strategy based on virtual actuators and sensors for such systems in the descriptor form Complex Conjugate Matrix Equations for Systems and Control Ai-Guo Wu,Ying Zhang,2016-08-08 The book is the first book on complex matrix equations including the conjugate of unknown matrices The study of these conjugate matrix equations is motivated by the investigations on stabilization and model reference tracking control for discrete time antilinear systems which are a particular kind of complex system with structure constraints It proposes useful approaches to obtain iterative solutions or

explicit solutions for several types of complex conjugate matrix equation It observes that there are some significant differences between the real complex matrix equations and the complex conjugate matrix equations For example the solvability of a real Sylvester matrix equation can be characterized by matrix similarity however the solvability of the con Sylvester matrix equation in complex conjugate form is related to the concept of con similarity In addition the new concept of conjugate product for complex polynomial matrices is also proposed in order to establish a unified approach for solving a type of complex matrix equation **Advances in Systems, Signals, Control and Computers** Vladimir B.. Bajić,1998 MELECON '98, 9th Mediterranean Electrotechnical Conference ,1998 **SIAM Journal on Matrix Analysis and Applications** ,1998 **IEEE Transactions on Circuits and Systems** ,2006 **Proceedings of MELECON** ,1998 **LMIs in Control Systems** Guang-Ren Duan,Hai-Hua Yu,2013-06-17 Although LMI has emerged as a powerful tool with applications across the major domains of systems and control there has been a need for a textbook that provides an accessible introduction to LMIs in control systems analysis and design Filling this need LMIs in Control Systems Analysis Design and Applications focuses on the basic analysis and design problems of both continuous and discrete time linear systems based on LMI methods Providing a broad and systematic introduction to the rich content of LMI based control systems analysis and design with applications this book is suitable for use as a textbook for LMI related courses for senior undergraduate and postgraduate students in the fields of control systems theory and applications Key Features Contains four well structured parts Preliminaries Control Systems Analysis Control Systems Design and Applications as well as an introduction chapter and two appendices Summarizes most of the technical lemmas used in the book in one preliminary chapter and classifies them systematically into different groups Includes many examples exercises and practical application backgrounds Summarizes most of the important results in the last section of each chapter in a clear table format Contains an application part composed of two chapters that respectively deal with missile and satellite attitude control using LMI techniques Provides a brief and clear introduction to the use of the LMI Lab in the MATLAB Robust Control Toolbox Supplies detailed proofs for all main results with lengthy ones clearly divided into different subsections or steps using elementary mathematics whenever possible Uses a pole assignment Benchmark problem in support of the numerical reliability of LMI techniques where numerical unreliability could result in a solution to a problem that is far from the true one A Solutions Manual and MATLAB codes for the computational exercise problems and examples are available upon qualified course adoption **Computer Aided Control Systems Design 2000 (CACSD 2000)** J. O. Gray,2001 This Proceedings contains the papers presented at the 8th IFAC Symposium on Computer Aided Control Systems Design held at Salford UK on 11 13 September 2000 Modelling has emerged as a central issue here and industrial users require the development of modelling languages for both analyses and design as well as generic models and tools which can be used for system identification optimisation and fault diagnostics Linear lumped parameter systems of general complexity are currently well addressed by a

range of commercially available packages However there is a dearth of tools suitable for the analysis and synthesis of large scale distributed non linear hybrid and stochastic systems which are increasingly a feature in modern manufacturing and process engineering As the scale of the problems to be addressed increases there is a need for numerically robust and efficient computational procedures linked to powerful interactive graphical interfaces which maximise the user of limited human resources and of course standardised data bases which can be used with wide range of analysis and design procedures Topics covered included the now traditional domains of algorithm architectures and tools and there was a very welcome emphasis on applications where no less than four sessions were devoted to this important aspect Parametric Approach for Linear Descriptor Systems Design Xian Zhang,2004

Decoding **Analysis And Design Of Descriptor Linear Systems**: Revealing the Captivating Potential of Verbal Expression

In a time characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its power to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Analysis And Design Of Descriptor Linear Systems**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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