

Ioan D. Landau
Gianluca Zito



Digital Control Systems

Design, Identification and Implementation



Springer

Digital Control Systems Design Identification And Implementation 1st Edition

Hua-Tian Li, Shi-Quan Su, M.G. Rodd



Digital Control Systems Design Identification And Implementation 1st Edition:

Digital Control Systems Ioan Doré Landau, Gianluca Zito, 2005-10-13 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

CAD for Control Systems Derek A. Linkens, 2020-08-27 This comprehensive collection brings together current information on CAD for control systems including present and future trends in computer aided design exploring the areas of modeling simulation simulation languages environments and design techniques Presenting a systems approach to control d

Operation, Construction, and Functionality of Direct Current Machines Amin, Muhammad, Rehmani, Mubashir Husain, 2015-04-30 Direct current machines are a quickly evolving domain whose applications affect many aspects of modern life from computers and printers to toys electric vehicles and traction applications As their many uses continue to grow it has become apparent that understanding these machines is the key to understanding our future Operation Construction and Functionality of Direct Current Machines brings together many concepts from the most basic working principles and construction of DC machines to more advanced topics such as electro magnetism armature reaction parallel operations and many more Highlighting theoretical concepts and numerical problems this book is an essential reference source for students educators and anyone interested in the field of electric machines

Automation in Textile Machinery L. Ashok Kumar, M Senthil kumar, 2018-03-20 Automation is the use of various control systems for operating equipment such as machinery and processes In line this book deals with comprehensive analysis of the trends and technologies in automation and control systems used in textile engineering The control systems descript in all chapters is to dissect the important components of an integrated control system in spinning weaving knitting chemical processing and garment industries and then to determine if and how the components are converging to provide manageable and reliable systems throughout the chain from fiber to the ultimate customer Key Features Describes the design features of machinery for operating various textile machineries in product manufacturing

Covers the fundamentals of the instrumentation and control engineering used in textile machineries Illustrates sensors and basic elements for textile automation Highlights the need of robotics in textile engineering Reviews the overall idea and scope of research in designing textile machineries Informatics in Control, Automation and Robotics Juan Andrade Cetto, Jean-Louis Ferrier, Joaquim Filipe, 2011-05-02 The present book includes a set of selected papers from the seventh International Conference on Informatics in Control Automation and Robotics ICINCO 2010 held in Madeira Portugal from 15 to 18 June 2010 The conference was organized in three simultaneous tracks Intelligent Control Systems and Optimization Robotics and Automation and Signal Processing Systems Modeling and Control The book is based on the same structure ICINCO received 320 paper submissions not including those of workshops or special sessions from 57 countries in all continents After a double blind paper review performed by the Program Committee only 27 submissions were accepted as full papers and thus selected for oral presentation leading to a full paper acceptance ratio of 8% Additional papers were accepted as short papers and posters A further refinement was made after the conference based also on the assessment of presentation quality so that this book includes the extended and revised versions of the very best papers of ICINCO 2010 Commitment to high quality standards is a major concern of ICINCO that will be maintained in the next editions of this conference including not only the stringent paper acceptance ratios but also the quality of the program committee keynote lectures workshops and logistics *Artificial Intelligence in Real-Time Control 1989* Hua-Tian Li, Shi-Quan Su, M.G. Rodd, 2014-07-04 Papers presented at the workshop are representative of the state of the art of artificial intelligence in real time control The issues covered included the use of AI methods in the design implementation testing maintenance and operation of real time control systems While the focus was on the fundamental aspects of the methodologies and technologies there were some applications papers which helped to put emerging theories into perspective The four main subjects were architectural issues knowledge acquisition and learning techniques and scheduling monitoring and management

Scientific and Technical Aerospace Reports ,1995-08 *Systems Engineering for Power* United States. Division of Electric Energy Systems. Systems Management & Structuring, 1980 **European Control Conference 1991** ,1991-07-02 Proceedings of the European Control Conference 1991 July 2 5 1991 Grenoble France *Fractional Order Differentiation and Robust Control Design* Jocelyn Sabatier, Patrick Lanusse, Pierre Melchior, Alain Oustaloup, 2015-05-06 This book provides an overview of the research done and results obtained during the last ten years in the fields of fractional systems control fractional PI and PID control robust and CRONE control and fractional path planning and path tracking Coverage features theoretical results applications and exercises The book will be useful for post graduate students who are looking to learn more on fractional systems and control In addition it will also appeal to researchers from other fields interested in increasing their knowledge in this area DOE/RA ,1980 **Federal Software Exchange Catalog** ,1986 **Fault Diagnosis and Sustainable Control of Wind Turbines** Silvio Simani, Saverio Farsoni, 2018-01-02 Fault Diagnosis and Sustainable Control

of Wind Turbines Robust Data Driven and Model Based Strategies discusses the development of reliable and robust fault diagnosis and fault tolerant sustainable control schemes by means of data driven and model based approaches These strategies are able to cope with unknown nonlinear systems and noisy measurements The book also discusses simpler solutions relying on data driven and model based methodologies which are key when on line implementations are considered for the proposed schemes The book targets both professional engineers working in industry and researchers in academic and scientific institutions In order to improve the safety reliability and efficiency of wind turbine systems thus avoiding expensive unplanned maintenance the accommodation of faults in their early occurrence is fundamental To highlight the potential of the proposed methods in real applications hardware in the loop test facilities representing realistic wind turbine systems are considered to analyze the digital implementation of the designed solutions The achieved results show that the developed schemes are able to maintain the desired performances thus validating their reliability and viability in real time implementations Different groups of readers ranging from industrial engineers wishing to gain insight into the applications potential of new fault diagnosis and sustainable control methods to the academic control community looking for new problems to tackle will find much to learn from this work Provides wind turbine models with varying complexity as well as the solutions proposed and developed by the authors Addresses in detail the design development and realistic implementation of fault diagnosis and fault tolerant control strategies for wind turbine systems Addresses the development of sustainable control solutions that in general do not require the introduction of further or redundant measurements Proposes active fault tolerant sustainable solutions that are able to maintain the wind turbine working conditions with gracefully degraded performance before required maintenance can occur Presents full coverage of the diagnosis and fault tolerant control problem starting from the modeling and identification and finishing with diagnosis and fault tolerant control approaches Provides MATLAB and Simulink codes for the solutions proposed

Adaptive Systems in Control and Signal Processing 1992 L. Dugard, M. M'Saad, I.D. Landau, 2014-06-28 Adaptive Systems remain a very interesting field of theoretical research extended by methodological studies and an increasing number of applications The plenary papers invited sessions and contributed sessions focused on many aspects of adaptive systems such as systems identification and modelling adaptive control of nonlinear systems and theoretical issues in adaptive control Also covered were methodological aspects and applications of adaptive control intelligent tuning and adaptive signal processing

Smart Cities Alex Khang, Shashi Kant Gupta, Sita Rani, Dimitrios A. Karras, 2023-11-30 This book discusses the basic principles of sustainable development in a smart city ecosystem to better serve the life of citizens It examines smart city systems driven by emerging IoT powered technologies and the other dependent platforms Smart Cities AI IoT Technologies Big Data Solutions Cloud Platforms and Cybersecurity Techniques discusses the design and implementation of the core components of the smart city ecosystem The editors discuss the effective management and development of smart city infrastructures starting with planning and

integrating complex models and diverse frameworks into an ecosystem. Specifically, the chapters examine the core infrastructure elements including activities of the public and private services as well as innovative ICT solutions: computer vision, IoT technologies, data tools, cloud services, AR/VR technologies, cybersecurity techniques, treatment solution of the environmental water pollution, and other intelligent devices for supporting sustainable living in the smart environment. The chapters also discuss machine vision models and implementation as well as real-time robotic applications. Upon reading the book, users will be able to handle the challenges and improvements of security for smart systems and will have the know-how to analyze and visualize data using big data tools and visualization applications. The book will provide the technologies, solutions, as well as designs of smart cities with advanced tools and techniques for students, researchers, engineers, and academics.

European Control Conference 1993, 1993-06-28. Proceedings of the European Control Conference 1993, Groningen, Netherlands, June 28-July 1, 1993. Technology for Large Space Systems, 1988. Computer Aided Design in Control Systems, 1988. Zhen-Yu Chen, 2017-05-03. This volume contains 73 papers presenting the state of the art in computer-aided design in control systems. CADCS: The latest information and exchange of ideas presented at the Symposium illustrates the development of computer-aided design science and technology within control systems. The Proceedings contain six plenary papers and six special invited papers, and the remainder are divided into five themes: CADCS packages, CADCS software, and hardware systems, design methods, CADCS expert systems, CADCS applications, with finally a discussion on CADCS in education and research.

The Control Handbook, William S. Levine, 2018-10-08. At publication, The Control Handbook immediately became the definitive resource that engineers working with modern control systems required. Among its many accolades, that first edition was cited by the AAP as the Best Engineering Handbook of 1996. Now 15 years later, William Levine has once again compiled the most comprehensive and authoritative resource on control engineering. He has fully reorganized the text to reflect the technical advances achieved since the last edition and has expanded its contents to include the multidisciplinary perspective that is making control engineering a critical component in so many fields. Now expanded from one to three volumes, The Control Handbook, Second Edition, organizes cutting-edge contributions from more than 200 leading experts. The second volume, Control System Applications, includes 35 entirely new applications organized by subject area. Covering the design and use of control systems, this volume includes applications for automobiles, including PEM fuel cells; Aerospace; Industrial control of machines and processes; Biomedical uses including robotic surgery and drug discovery and development; Electronics and communication networks. Other applications are included in a section that reflects the multidisciplinary nature of control system work. These include applications for the construction of financial portfolios, earthquake response control for civil structures, quantum estimation and control, and the modeling and control of air conditioning and refrigeration systems. As with the first edition, the new edition not only stands as a record of accomplishment in control engineering but provides researchers with the means to make further advances. Progressively

organized the other two volumes in the set include Control System Fundamentals Control System Advanced Methods

Automatic Control Systems in Biomedical Engineering J. Fernández de Cañete, C. Galindo, J. Barbancho, A.

Luque, 2018-03-12 This book presents the fundamental principles and challenges encountered in the control of biomedical systems providing practical solutions and suggesting alternatives The perspective of the text is based on the system behaviour in the time domain both linear and non linear continuous and discrete helping the reader to be able to interpret the physical significance of mathematical results during control system analysis and design focusing on biomedical engineering applications Interactive learning is promoted endowing students with the ability to change parameters and conditions during the simulation and see the effects of these changes by using interactive MATLAB and SIMULINK software tools also presenting realistic problems in order to analyse design and develop automatic control systems The text is also complemented with MATLAB and SIMULINK exercise files solved to aid students to focus on the fundamental concepts treated throughout the book following a new pedagogical approach distinct from the classical one whereby fundamental control concepts are introduced together with adequate software tools in order to gain insight on the biomedical engineering control problems The book is suitable for second or third year undergraduate students who will find the illustrative examples particularly useful to their studies of control system design and implementation Lecturers in the control field will find the computer aided design approach as an alternative to teaching the fundamental concepts of feedback analogic and digital control

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