

Ioan D. Landau
Gianluca Zito



Digital Control Systems

Design, Identification and Implementation



Springer

Digital Control Systems Design Identification And Implementation 1st Edition

Victor M. Corman



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 **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 **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

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

Advances and Applications in Computer Science, Electronics, and Industrial Engineering Marcelo V. Garcia, Félix Fernández-Peña, Carlos Gordón-Gallegos, 2022-05-25 This book presents the proceedings of the 3rd Conference on Computer Science Electronics and Industrial Engineering CSEI 2021 held in Ambato in October 2021 with participants from 10 countries and guest speakers from Chile Colombia Brasil Spain Portugal and United States Featuring 20 peer reviewed papers it discusses topics such as the use of metaheuristics for non deterministic problem solutions software architectures for supporting e government initiatives and the use of electronics in e learning and industrial environments It also includes contributions illustrating how new approaches to these converging research areas are impacting the

development of human societies around the world As such it is a valuable resource for scholars and practitioners alike

American Book Publishing Record ,2001 *Multivariable Control Systems* Pedro Albertos,Sala Antonio,2006-04-18
This book focuses on control design with continual references to the practical aspects of implementation While the concepts of multivariable control are justified the book emphasizes the need to maintain student interest and motivation over exhaustively rigorous mathematical proof **Proceedings of the ASME Dynamic Systems and Control Division--2003** ,2003 *Industrial Digital Control Systems* K. Warwick,D. Rees,1988 Includes Digital signals and systems Digital controllers for process control applications Design of digital controllers Control of time delay systems State space concepts System identification Introduction to discrete optimal control Multivariable control Adaptive control Computer aided design for industrial control systems Reliability and redundancy in microprocessor controllers Software and hardware aspects of industrial controller implementations Application of distributed digital control algorithms to power stations An expert system for process control **Computer Aided Control Systems Design, CACSD '97** L. Boullart,Mia Loccupier,Sven Erik Mattsson,1997 This volume contains the proceedings of the 7th IFAC Symposium on Computer Aided Control Systems Design CACSD 97 held in Gent Belgium on 28 30 April 1997 It presents a high standing scientific contribution to the challenging field of CACSD and gives an excellent preview of current research which in coming years will undoubtedly offer many useful results The topics covered include control systems design special architectures for CACSD software for CACSD hybrid discrete event and real time systems symbolic and numerical computations algorithms for CACSD CACSD support environments planning and manufacturing system modelling and simulation optimization robust control intelligent controller design and applications The volume comprises 61 full papers and a challenging keynote address by Professor Georg Gruuml bel from the DLR Institute of Robotics and System Dynamics Germany *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 *Microcomputers Engineering Information, Inc*,1983 **Chemical Engineering Abstracts** ,1990
 Large Space Structures & Systems in the Space Station Era ,1992 *Systems & Control Encyclopedia: M-O* ,1987
This comprehensive reference work provides information on what systems thinking comprises and how it is being used to understand and to attack a wide spectrum of diverse problems ranging from for example the control of servo mechanisms to applications of space technology *Subject Guide to Books in Print* ,1997 **IEEE Proceedings of the Southeastcon** ,1984 *Systems & Control Encyclopedia: P-Sim* ,1987 This comprehensive reference work provides information on what

systems thinking comprises and how it is being used to understand and to attack a wide spectrum of diverse problems ranging from for example the control of servo mechanisms to applications of space technology **Conference Proceedings**
,1984 **Space Station Systems: A Bibliography with Indexes (supplement 6)** ,1988

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