

Digital Control System Analysis and Design

FOURTH EDITION

Charles L. Phillips • H. Troy Nagle • Aranya Chakrabortty



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Digital Control System Analysis and Design Charles L. Phillips, H. Troy Nagle (Jr.), 1984 This revision of the best selling book for the digital controls course features new running applications and integration of MATLAB the most widely used software in controls Coverage of root locus design and the Fourier transform have also been increased System Analysis and Design Charles L. Phillips, H. Troy Nagle, Aranya Chakrabortty, 2014-08-04 Appropriate for a one semester two quarter senior level course in digital or discrete time controls. This revision of the best selling text in digital controls is a significant update with the integration of MATLAB software and new coverage in several areas This program presents a better teaching and learning experience for you and your students Provide MATLAB programs to students Short MATLAB programs have been included in many of the examples which allow students to experiment and learn more skills Motivate students with running applications that are featured throughout the book Simple physical systems are introduced in one chapter and then used again later to illuminate more advanced material Reinforce core concepts with examples and problems Over 400 problems and 130 worked examples help students grasp the text s concepts **Digital Control System** Analysis & Design Charles L. Phillips, H. Troy Nagle, Aranya Chakrabortty, 2015 Digital Control Systems Analysis and Design is appropriate for a one semester two quarter senior level course in digital or discrete time controls It is also a suitable reference for practicing engineers This best selling text places emphasis on the practical aspects of designing and implementing digital control systems. This program presents a better teaching and learning experience for you and your students Provide MATLAB programs to students Short MATLAB programs have been included in many of the examples which allow students to experiment and learn more skills Motivate students with running applications that are featured throughout the book Simple physical systems are introduced in one chapter and then used again later to illuminate more advanced material Reinforce core concepts with examples and problems Numerous problems and worked examples help students grasp the text's concepts Keep your course current A new chapter on system identification Chapter 11 is included in this edition

Digital Control Systems Analysis and Design I Charles L. Phillips, H. Troy Nagle, 1995 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 Digital Control Engineering M. Sami Fadali, Antonio Visioli, 2012-08-21 Digital controllers are part of nearly all modern personal industrial and transportation systems Every senior or graduate student of electrical chemical or mechanical engineering should therefore be familiar with the basic theory of digital controllers This new text covers the fundamental principles and applications of digital control engineering with emphasis on engineering design Fadali and Visioli cover analysis and design of digitally controlled systems and describe applications of digital controls in a wide range of fields With worked examples and Matlab applications in every chapter and many end of chapter assignments this text provides both theory and practice for those coming to digital control engineering for the first time whether as a student or practicing engineer Extensive Use of computational tools Matlab sections at end of each chapter show how to implement concepts from the chapter Frees the student from the drudgery of mundane calculations and allows him to consider more subtle aspects of control system analysis and design An engineering approach to digital controls emphasis throughout the book is on design of control systems Mathematics is used to help explain concepts but throughout the text discussion is tied to design and implementation For example coverage of analog controls in chapter 5 is not simply a review but is used to show how analog control systems map to digital control systems Review of Background Material contains review material to aid understanding of digital control analysis and design Examples include discussion of discrete time systems in time domain and frequency domain reviewed from linear systems course and root locus design in s domain and z domain reviewed from feedback control course Inclusion of Advanced Topics In addition to the basic topics required for a one semester senior graduate class the text includes some advanced material to make it suitable for an introductory graduate level class or for two quarters at the senior graduate level Examples of optional topics are state space methods which may receive brief coverage in a one semester course and nonlinear discrete time systems Minimal Mathematics Prerequisites The mathematics background required for understanding most of the book is based on what can be reasonably expected from the average electrical chemical or mechanical engineering senior This background includes three semesters of calculus differential equations and basic linear algebra Some texts on digital control require more **Linear Control** System Analysis and Design with MATLAB®, Sixth Edition Constantine H. Houpis, Stuart N. Sheldon, 2013-10-30 Thoroughly classroom tested and proven to be a valuable self study companion Linear Control System Analysis and Design Sixth Edition provides an intensive overview of modern control theory and conventional control system design using in depth explanations diagrams calculations and tables Keeping mathematics to a minimum the book is designed with the undergraduate in mind first building a foundation then bridging the gap between control theory and its real world application

Computer aided design accuracy checks CADAC are used throughout the text to enhance computer literacy Each CADAC uses fundamental concepts to ensure the viability of a computer solution Completely updated and packed with student friendly features the sixth edition presents a range of updated examples using MATLAB as well as an appendix listing MATLAB functions for optimizing control system analysis and design Over 75 percent of the problems presented in the previous edition have been revised or replaced Modern Digital Control Sys 2e Raymond G. Jacquot, 1995 This work presents traditional methods and current techniques of incorporating the computer into closed loop dynamic systems control combining conventional transfer function design and state variable concepts Digital Control Designer an award winning software program which permits the solution of highly complex problems is included 3 5 IBM compatible disk This edition supplies new coverage of the Ragazzini technique describes digital filtering including Butterworth prototype filters and more **Linear Control System Analysis and Design** Constantine H. A solutions manual is included for instructors Houpis, Stuart N. Sheldon, John J. D'Azzo, 2003-08-14 Thoroughly classroom tested and proven to be a valuable self study companion Linear Control System Analysis and Design Fifth Edition uses in depth explanations diagrams calculations and tables to provide an intensive overview of modern control theory and conventional control system design The authors keep the mathematics to a minimum while stressing real world engineering challenges Completely updated and packed with student friendly features the Fifth Edition presents a wide range of examples using MATLAB and TOTAL PC as well as an appendix listing MATLAB functions for optimizing control system analysis and design Eighty percent of the problems presented in the previous edition have been revised to further reinforce concepts necessary for current electrical aeronautical astronautical and mechanical applications Digital Control of Dynamic Systems Gene F. Franklin, J. David Powell, Michael L. Workman, 1998 Introduction Review of continuous control Introductory digital control Discrete systems analysis Sampled data systems Discrete equivalents Design using transform techniques Design using state space methods Multivariable and optimal control Quantization effects Sample rate selection System identification Nonlinear control Design of a disk drive servo a case study Appendix A Exemples Appendix B Tables Appendix C A few results from matrix analysis Appendix D Summary of facts from the theory of probability and stochastic processes Appendix E Matlab functions Appendix F Differences between Matlab v5 and v4 References Index Design and Analysis of Control Systems Arthur G.O. Mutambara, 2017-12-14 Written to inspire and cultivate the ability to design and analyze feasible control algorithms for a wide range of engineering applications this comprehensive text covers the theoretical and practical principles involved in the design and analysis of control systems From the development of the mathematical models for dynamic systems the author shows how they are used to obtain system response and facilitate control then addresses advanced topics such as digital control systems adaptive and robust control and nonlinear control systems Digital Control Systems Analysis Phillips, Shadian, 1993-01-01 Control System Design Guide George Ellis, 2012-06-27 Control Systems Design Guide has

helped thousands of engineers to improve machine performance This fourth edition of the practical guide has been updated with cutting edge control design scenarios models and simulations enabling apps from battlebots to solar collectors This useful reference enhances coverage of practical applications via the inclusion of new control system models troubleshooting tips and expanded coverage of complex systems requirements such as increased speed precision and remote capabilities bridging the gap between the complex math heavy control theory taught in formal courses and the efficient implementation required in real industry settings George Ellis is Director of Technology Planning and Chief Engineer of Servo Systems at Kollmorgen Corporation a leading provider of motion systems and components for original equipment manufacturers OEMs around the globe He has designed an applied motion control systems professionally for over 30 years He has written two well respected books with Academic Press Observers in Control Systems and Control System Design Guide now in its fourth edition He has contributed articles on the application of controls to numerous magazines including Machine Design Control Engineering Motion Systems Design Power Control and Intelligent Motion and Electronic Design News Explains how to model machines and processes including how to measure working equipment with an intuitive approach that avoids complex math Includes coverage on the interface between control systems and digital processors reflecting the reality that most motion systems are now designed with PC software Of particular interest to the practicing engineer is the addition of new material on real time remote and networked control systems Teaches how control systems work at an intuitive level including how to measure model and diagnose problems all without the unnecessary math so common in this field Principles are taught in plain language and then demonstrated with dozens of software models so the reader fully comprehend the material The models and software to replicate all material in the book is provided without charge by the author at www QxDesign com New material includes practical uses of Rapid Control Prototypes RCP including extensive examples using National Digital Control Systems Benjamin C. Kuo, 1995-06 In recent years significant progress has been Instruments LabVIEW made in the analysis and design of discrete data and digital control systems. These systems have gained popularity and importance in industry due in part to the advances made in digital computers for controls and more recently in microprocessors and digital signal processors An introductory text for a senior or graduate course on digital control systems this text covers the theory and applications of digital control systems assuming a knowledge of matrix algebra differential equations Laplace transforms and the basic principles of continuous data control systems Many subjects are new to the Second Edition most importantly design topics such as disturbance rejection sensitivity considerations and zero ripple deadbeat response design In addition Kuo includes separate discussions on controllability observability and stability expands the discussions of sampling period selection emphasizes computer aided solutions and provides a new and simpler approach to the Nyquist criterion of stability Each chapter begins with keywords and topics that provide students with an overview of the key topics to be covered Illustrative examples many derived from practical systems are included throughout the text

Numerous exercise problems end each chapter Digital Control Systems--theory, Hardware, Software Constantine H. Houpis, Gary B. Lamont, 1985 Digital Control and State Variable Methods M. Gopal, 2010-07-01 The third edition of Digital Control and State Variable Methods presents control theory relevant to the analysis and design of computer control systems Meant for the undergraduate and postgraduate courses on advanced control systems this text provides an up to date treatment of digital control state variable analysis and design and nonlinear control **Modern Control System Theory** and Design Stanley M. Shinners, 1998-05-06 The definitive guide to control system design Modern Control System Theory and Design Second Edition offers themost comprehensive treatment of control systems available today Its unique text software combination integrates classical and modern control system theories while promoting an interactive computer based approach to design solutions The sheer volume of practical examples as well as the hundreds of illustrations of control systems from all engineering fields make this volumeaccessible to students and indispensable for professional engineers. This fully updated Second Edition features a new chapter on moderncontrol system design including state space design techniques Ackermann's formula for pole placement estimation robust control and the H method for control system design Other notable additions to this edition are Free MATLAB software containing problem solutions which can be retrieved from The Mathworks Inc anonymous FTP server atftp ftp mathworks com pub books shinners Programs and tutorials on the use of MATLAB incorporated directlyinto the text A complete set of working digital computer programs Reviews of commercial software packages for control systemanalysis An extensive set of new worked out illustrative solutions addedin dedicated sections at the end of chapters Expanded end of chapter problems one third with answers to facilitate self study. An updated solutions manual containing solutions to the remaining two thirds of the problems Superbly organized and easy to use Modern Control System Theoryand Design Second Edition is an ideal textbook for introductory courses in control systems and an excellent professional reference Its interdisciplinary approach makes it invaluable for practicingengineers in electrical mechanical aeronautical chemical and nuclear engineering and related areas Control System Principles and Design Ernest O. Doebelin, 1985-06-26 Designed for graduate and upper level undergraduate engineering students this is an introduction to control systems their functions and their current role in engineering design Organized from a design rather than an analysis viewpoint it shows students how to carry out practical engineering design on all types of control systems Covers basic analysis operating and design techniques as well as hardware software implementation Includes case studies Design and Analysis of Control Systems Arthur G.O. Mutambara, 2024-03-27 Written to inspire and cultivate the ability to design and analyse feasible control algorithms for a wide range of engineering applications this comprehensive text covers the theoretical and practical principles involved in the design and analysis of control systems This second edition introduces 4IR adoption strategies for traditional intelligent control including new techniques of implementing control systems It provides improved coverage of the characteristics of feedback control root locus analysis frequency response analysis state space

methods digital control systems and advanced controls including updated worked examples and problems Features Describes very timely applications and contains a good mix of theory application and computer simulation Covers all the fundamentals of control systems Takes a transdisciplinary and cross disciplinary approach Explores updates for 4IR Industry 4 0 and includes better experiments and illustrations for nonlinear control systems Includes homework problems case studies examples and a solutions manual This book is aimed at senior undergraduate and graduate students professional engineers and academic researchers in interrelated engineering disciplines such as electrical mechanical aerospace mechatronics robotics and other AI based systems

Applied Digital Control J. R. Leigh,2006-06-23 An essential core text this volume develops theoretical foundations and explains how control systems work in real industrial situations Several case histories assist students in visualizing applications 1992 edition

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