



Digital Control System Analysis and Design

FOURTH EDITION

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



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Digital Control System Design

**Duane T. McRuer, Richard F.
Whitbeck, Raymond E. Magdaleno**

Digital Control System Design:

Digital Control Systems Ioan Doré Landau, Gianluca Zito, 2007-05-11 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 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 *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

Analog and Digital Control System Design Chi-Tsong Chen,1993 Mathematical Preliminary Development of Block Diagrams for Control Systems Quantitative and Qualitative Analyses of Control Systems Computer Simulation and Realization Design Criteria Constraints and Feedback The Root Locus Method Frequency Domain Techniques The Inward Approach Choice of Overall Transfer Functions Implementation Linear Algebraic Method State Space Design Discrete Time System Analysis Discrete Time System Design PID Controllers *Analog and Digital Control System Design* Chi-Tsong Chen,2006-02-24 This text s contemporary approach focuses on the concepts of linear control systems rather than computational mechanics Straightforward coverage includes an integrated treatment of both classical and modern control system methods The text emphasizes design with discussions of problem formulation design criteria physical constraints several design methods and implementation of compensators Discussions of topics not found in other texts such as pole placement model matching and robust tracking add to the text s cutting edge presentation Students will appreciate the applications and discussions of practical aspects including the leading problem in developing block diagrams noise disturbances and plant perturbations State feedback and state estimators are designed using state variable equations and transfer functions offering a comparison of the two approaches The incorporation of MATLAB throughout the text helps students to avoid time consuming computation and concentrate on control system design and analysis *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 Instruments LabVIEW

Discrete-Time Control System Design with Applications C.A. Rabbath,N. Léchevin,2013-12-02 This unique book provides a bridge between digital control theory and vehicle guidance and control practice It presents practical techniques of digital redesign and direct discrete time design suitable for a real time implementation of controllers and guidance laws at multiple rates and with and computational techniques The theory of digital control is given as theorems lemmas and propositions The design of the digital guidance and control systems is illustrated by means of step by step procedures algorithms and case studies The systems proposed are applied to realistic models of unmanned systems and missiles and digital implementation

Digital Control Systems Constantine H. Houppis,Gary B. Lamont,1992 Continuous time control system response characteristics Linear systems and the sampling process Discrete systems modeling Discrete control analysis Discrete transform analysis approximations Principles of signal conversion and measurement Digital control system implementation Random processes in digital control systems Finite word length and compensator structure Cascade compensation digitization DIG technique Cascade compensation direct DIR technique Feedback compensation Discrete state variable model State space design methods Discrete quantitative feedback technique Modern discrete control theory Discrete optimal control Discrete estimation and stochastic control Fourier transform Convolution Pade approximation Power series Computer Aided Design CAD programs for control Matrix manipulations Signal flow graphs w Transformation characteristics Number representations Theory of probability Discrete QFT design processes

A First Course in Control System Design Kamran Iqbal,2022-09-01 Control systems are pervasive in our lives Our homes have environmental controls The appliances we use such as the washing machine microwave etc carry embedded controllers in them We fly in airplanes and drive automobiles that extensively use control systems The industrial plants that produce consumer goods run on process control systems The recent drive toward automation has increased our reliance on control systems technology This book discusses control

systems design from a model based perspective for dynamic system models of single input single output type The emphasis in this book is on understanding and applying the techniques that enable the design of effective control systems in multiple engineering disciplines The book covers both time domain and the frequency domain design methods as well as controller design for both continuous time and discrete time systems MATLAB and its Control Systems Toolbox are extensively used for design

Digital Control System Analysis and Design Charles L. Phillips,H. Troy Nagle,Aranya Chakraborty,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

Industrial Digital Control Systems K. Warwick,D. Rees,1988 *Digital Control Systems* Benjamin C. Kuo,1992 **Computer Aided Design in Control Systems** International Federation of Automatic Control,1992 Hardbound The tone of the Proceedings is set by the three Plenary papers and the remaining papers are arranged under the coherent themes of environment computational methods modelling and simulation design methods and applications The papers in the Proceedings represent the state of the art in the rapidly changing technology of computer aided design in control systems They clearly show how that technology is absorbing the most recent developments in computer science and adapting them to its requirements The reader will find that the emphasis in the technology is shifting towards open environments with object oriented databases and modern graphical user interfaces supporting a whole range of tools for modelling analysis and design

Digital Control System Analysis & Design Charles L. Phillips,H. Troy Nagle,Aranya Chakraborty,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

Control System Design Stanley M. Shinnars,1964 Methodologies for the Direct Digital Control of Highly Flexible

Vehicles Duane T. McRuer, Richard F. Whitbeck, Raymond E. Magdaleno, 1985 This report presents methodologies for the direct digital control of vehicles with flexible modes The techniques yield robust control system designs with modest or minimal requirements on the number of sensors and control actuators the digital system techniques used include primarily the w transforms for direct design and stability assessment and the hybrid frequency response for assessment and understanding of digital system peculiarities The sawtooth Bode is used as the basic control system design concept These three elements are applied to several examples including a comprehensive case study for a fighter aircraft flight and flexible mode control system Both continuous and discrete system designs are considered and the continuous system characteristics are contrasted with an optimal control design This comparison pinpoints some of the features needed to make optimal control procedures more practical and mature for flexible vehicle control applications An important step is taken in this direction by determining the nature of performance criteria which yield for an example case a highly robust extremely simple controller derived from an optimal control procedure **An Optimal Digital Control System Design** Françoise Clavel, 1981 *Digital Control System Design* Santina, 1994-01-01 Design of a Digital Controller for Sampled-data Feedback System J. M. Heyning, 1958 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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