

Digital Control System Analysis and Design

Third Edition

CHARLES L. PHILLIPS

*Department of Electrical Engineering
Auburn University*

H. TROY NAGLE

*Department of Electrical
and Computer Engineering
North Carolina State University*



PRENTICE HALL, Englewood Cliffs, New Jersey 07632

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Digital Computer Applications to Process Control M. Paul, 2016-11-04 Considers the application of modern control engineering on digital computers with a view to improving productivity and product quality easing supervision of industrial processes and reducing energy consumption and pollution The topics covered may be divided into two main subject areas 1 applications of digital control in the chemical and oil industries in water turbines energy and power systems robotics and manufacturing cement metallurgical processes traffic control heating and cooling 2 systems theoretical aspects of digital control adaptive systems control aspects multivariable systems optimization and reliability modelling and identification real time software and languages distributed systems and data networks Contains 84 papers *Digital Computer Applications to Process Control* ,1986 **Low Cost Automation** A. De Carli, 1991 The Symposium sought to cover a number of methods used to achieve low cost automation in industry today The first half of the volume deals with the techniques developed to provide a low cost alternative these include computer aided design electrical devices P I D controllers modelling petri nets and systems A further section covers components and instruments which affect such things as reliability aspects and new instrumentation The papers in the second half of the volume cover the applications of the aforementioned techniques and are applied in general purpose control strategies manufacturing and factory automation and computer networks Digital Control Systems Benjamin C. Kuo, 1980 **Official Gazette of the United States Patent and Trademark Office** ,1982 *Official Gazette of the United States Patent Office* United States. Patent Office, 1967 *Digital Control Systems--theory, Hardware, Software* Constantine H. Houppis, Gary B. Lamont, 1985 The Journal of Nutrition ,1967 Vols 7 42 include the Proceedings of the annual meeting of the American Institute of Nutrition 1st 9th 11th 14th 1934 1942 1947 1950 1st 8th 1934 1941 issued as supplements to the journal **Digital Control System Analysis and Design** Charles L. Phillips, H. Troy Nagle, 1990 **Digital Control Engineering** M. Gopal, 1988 Digital Control Systems Anastasia Veloni, Nikolaos Miridakis, 2017-08-07 The objective of this book is to provide a collection of solved problems on control systems with an emphasis on practical problems System functionality is described the modeling process is explained the problem solution is introduced and the derived results are discussed Each chapter ends with a discussion on applying MATLAB LabVIEW and or Comprehensive Control to the previously introduced concepts The aim of the book is to help an average reader understand the concepts of control systems through problems and applications The solutions are based directly on math formulas given in extensive tables throughout the text Introduction to Continuous and Digital Control Systems Roberto Saucedo, Earl E. Schiring, 1968 **Current Literature** ,1966 **Digital Control Engineering** M. Sami Fadali, Antonio Visioli, 2009-02-03 Digital Control Engineering covers the fundamental principles and applications of digital control engineering with emphasis on engineering design 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 book features Matlab sections at end of each chapter which show how to implement concepts from the chapter Mathematics is used to help explain concepts but throughout the text discussion is tied to design and implementation It contains review material to aid understanding of digital control analysis and design Examples include discussions 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 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 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 mathematical maturity and are therefore beyond the reach of the typical senior

Practical Digital Control
A. M. Zikic, 1989

Digital Control Systems R. Isermann, 2013-03-09 The great advances made in large scale integration of semiconductors the resulting cost effective digital processors and data storage devices and the development of suitable programming techniques are all having increasing influence on the techniques of measurement and control and on automation in general The application of digital techniques to process automation started in about 1960 when the first process computer was installed From about 1970 computers have become standard equipment for the automation of industrial processes connected on line in open or closed loop The annual increase of installed process computers in the last decade was about 20-30% The cost of hardware has shown a tendency to decrease whereas the relative cost of user soft

ware has tended to increase Because of the relatively high total cost the first phase of digital computer application to process control is characterized by the centralization of many functions in a single though sometimes in several process computer Such centralization does not permit full utilization of the many advantages of digital signal processing and rapid economic pay off as analog back up systems or parallel standby computers must often be provided to cover possible breakdowns in the central computer In 1971 the first microprocessors were marketed which together with large scale integrated semiconductor memory units and input output modules can be assembled into more cost effective process microcomputers

Subject Guide to Books in Print ,1991

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

Modern Digital Control Systems Jacquot,2019-01-22 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 available on the CR

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