

# Digital Control Engineering Analysis and Design

**Second Edition**

**M. Sami Fadali**

**Antonio Visioli**



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**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

Digital Control Engineering M. Sami Fadali, Antonio Visioli, 2012-09-06 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

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Aerospace Abstracts ,1993      **Solutions Manual for Digital Control System Design** Mohammed S. Santina,Allen R. Stubberud,1994      *Digital Control* Kannan Moudgalya,2008-06-03 Digital control systems are becoming increasingly prevalent and important within industry In recent years significant progress has been made in their analysis and design particularly within the areas of microprocessors and digital signal processors The traditional approach to teaching digital control assumes an understanding of analog control theory Digital Control however teaches the fundamentals of the topics assuming no prior knowledge of control engineering Organised into five sections it discusses modelling signal processing and identification of plants from measurements as well as the transfer function approach to and state space techniques for control design Teaches the fundamentals of digital control enabling the student to exploit the complete potential of digital systems Presents a number of control techniques including proportional integral derivative PID pole placement internal model minimum variance model predictive and linear quadratic Gaussian control and their extensions Provides an extensive introduction to digital signal processing an essential component to the understanding and implementation of digital controllers and to the identification of plant models an important topic in this information era Includes examples problems and solutions as well as accompanying MatLAB code Digital Control offers an advanced and self contained textbook to senior undergraduates and postgraduates in chemical electrical and mechanical engineering and computer science It will also appeal to practicing systems engineers who need to learn digital control      **Indian Science Abstracts** ,1988-04      **Books in Print** ,1994      **Practical Digital Control** A. M. Zikic,1989

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