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Digital control engineering : analysis and design / M. Sami Fadali, Antonio Visioli. Second edition. pages

cm Includes bibliographical references and index. ISBN 978-0-12-394391-0 (hardback) 1. Digital control systems. I. Visioli, Antonio. II. Title. TJ223.M53F33 2013 629.809dc23 2012021488

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bespoke technology solution to your course's specific requirements and needs. Develop websites just for your course, acting as a bespoke 'one-stop shop' for you and your students to

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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

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.

A comprehensive treatment of the analysis and design of discrete-time control systems which provides a gradual development of the theory by

emphasizing basic concepts and avoiding highly mathematical arguments. The text features comprehensive treatment of pole placement, state observer design, and quadratic optimal control.

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

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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 andmodern control system theories, while promoting an interactive,computer-based approach to design solutions. The sheer volume

ofpractical examples, as well as the hundreds of illustrations ofcontrol 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 additionsto this edition are: * Free MATLAB software containing problem solutions, which can beretrieved 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 tofacilitate self-study * An updated solutions manual containing solutions to the remainingtwo-

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, andnuclear engineering and related areas.

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.