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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.

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A digital control system for a manufacturing plant is an example of the latter case. Systems that fall in this second category are commonly referred to as embedded systems. The term embedded means being part of a larger unit and providing a dedicated service to that unit. Thus a personal computer can be made the

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Visioli, in Digital Control
Engineering, 2009. To design
a digital control system, a
z-domain transfer function
or difference equation model
of the controller that meets

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given design specifications,
is sought. The controller
model can be obtained from
the model of an analog
controller that meets the
same design specifications.

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I used this book for a
course on Digital Control
System Design and it help me
to have a clear
understanding on continuous
control system design
methods applied to discrete
time control systems. The
book have chapters
specialized in time domain
and frequency domain
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In recent years significant progress has been 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

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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

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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.

This text's contemporary approach focuses on the

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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

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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.

Digital controllers are part
of nearly all modern
personal, industrial, and

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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-

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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.

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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

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feedback control course)
Inclusion of Advanced Topics
And Computer Engineering

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

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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

Includes: Digital signals and systems. Digital controllers for process control applications. Design of digital controllers. Control of time delay systems. State-space concepts. System identification. Introduction to discrete optimal control. Multivariable control.

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aided design for industrial
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and redundancy in
microprocessor controllers.
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aspects of industrial
controller implementations.
Application of distributed
digital control algorithms
to power stations. An expert
system for process control.

The essential introduction
to the principles and
applications of feedback

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systems—now fully revised and expanded. This textbook covers the mathematics needed to model, analyze, and design feedback systems. Now more user-friendly than ever, this revised and expanded edition of *Feedback Systems* is a one-volume resource for students and researchers in mathematics and engineering. It has applications across a range of disciplines that utilize feedback in physical, biological, information, and economic systems. Karl Åström and Richard Murray use techniques from physics, computer science, and operations research to introduce control-oriented

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modeling. They begin with state space tools for analysis and design, including stability of solutions, Lyapunov functions, reachability, state feedback observability, and estimators. The matrix exponential plays a central role in the analysis of linear control systems, allowing a concise development of many of the key concepts for this class of models. Åström and Murray then develop and explain tools in the frequency domain, including transfer functions, Nyquist analysis, PID control, frequency domain design, and

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robustness. Features a new chapter on design principles and tools, illustrating the types of problems that can be solved using feedback Includes a new chapter on fundamental limits and new material on the Routh-Hurwitz criterion and root locus plots Provides exercises at the end of every chapter Comes with an electronic solutions manual An ideal textbook for undergraduate and graduate students Indispensable for researchers seeking a self-contained resource on control theory

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