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2. Discrete-Time Systems and the z-Transform. 3. Sampling and Reconstruction. 4. Open-Loop Discrete-Time Systems. 5. Closed-Loop Systems. 6. System Time-Response Characteristics. 7. Stability Analysis Techniques. 8. Digital Controller Design. 9. Pole-Assignment Design and State Estimation. 10. Linear Quadratic Optimal Control. 11.

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Description Appropriate for a one semester/two-quarter senior-level course in digital or discrete-time controls. 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.

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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

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.

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 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

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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

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.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For sophomore/junior-level signals and systems courses in Electrical and Computer Engineering departments. Signals, Systems, and Transforms, Fourth Edition is ideal for electrical and computer engineers. The text provides a clear, comprehensive presentation of both the theory and applications in signals, systems, and transforms. It presents the mathematical background of signals and systems, including the Fourier transform, the Fourier series, the Laplace transform, the discrete-time and the discrete Fourier transforms, and the z-transform. The text integrates MATLAB examples into the presentation of signal and system theory and applications.

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the other. New material includes watermarking with side information, QIM, and dirty-paper codes. The revision and inclusion of new material by these influential authors has created a must-own book for anyone in this profession. This new edition now contains essential information on steganalysis and steganography New concepts and new applications including QIM introduced Digital watermark embedding is given a complete update with new processes and applications

Awarded with the US National Indie Excellence Award 2014 in Social Media. This book is about digital media. Even more, the book is about us. It explains how the ever-growing flood of digital media affects our perceptions of the world, change our behaviors and eventually transform our very existence. In the era of Facebook, Twitter, Google, and Apple, being online is the standard. We spend many hours a day gazing at our screens, traversing the virtual realm, and posting our tweets, tags, and “likes.” Billions of years of evolution have prepared us for life at the savannas. It took us less than two decades to radically transform our biotope. Being online is no less than a fundamentally different mode of being. It is likely to produce a fragmented, detached, and distorted view of the world. What will be our understanding of the world when all certainties that result from living in a material world become useless? What will be our role and position when computer intelligence surpasses human intelligence? How can we avoid losing grip of the significance of identity, friendship, social engagement, and eventually life at large? The book explains the mechanisms and consequences of engaging in online spaces. It offers an accessible means for attaining a better understanding of the ways digital media influence our lives. It is a compact guide to becoming media literate and to preparing us for the advanced digital services that are yet to come. This makes the book an indispensable aid for every twenty-first-century citizen.

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