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In order to take full advantage of this potential, Digital Control Systems demonstrates in detail how to design and implement high-performance model-based controllers combining system identification and control design techniques extensively tested in industrial milieu. The effective use of these techniques is illustrated in the context of various systems including: d.c. motors, flexible ...

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Introduction. This well-known book is an introduction to the field of digital, sampled-data control. It treats the field in depth and can be used for courses and for self study. The second edition has been completely revised and expanded with new results. The work now appears in two volumes, with Volume 2 to be published in 1989.

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The great advances made in large-scale integration of semiconductors, the resulting cost-effective digital processors and data storage devi ces, and the development of suitable programming techniques are all having increasing influence on the techniques of measurement and con trol and on automation in general.

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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.

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Two new chapters have been added to the third edition offering a review of feedback control systems and an overview of digital control systems. Updated to be fully compatible with MATLAB versions 4 and 5, the text thoroughly integrates MATLAB statements and problems to offer readers a complete design picture.

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Digital Control Engineering

introduction to digital control of mechanical systems with an emphasis on applications. The desire to write this book arose from my frustration with the existing texts on digital control, which[while they were exhaustive]were better suited to reference needs than for tutorial use.

Introduction to Applied Digital Control

These advances rely on control effectiveness, making it essential to apply appropriate control schemes to the converter and system to obtain the desired performance. Show less Control of Power Electronic Converters and Systems examines the theory behind power electronic converter control, including operation, modeling and control of basic converters.

Control of Power Electronic Converters and Systems ...

The first volume, Control System Fundamentals, offers an overview for those new to the field but is also of great value to those across any number of fields whose work is reliant on but not exclusively dedicated to control systems. Covering mathematical fundamentals, defining principles, and basic system approaches, this volume:

The Control Handbook | Taylor & Francis Group

1. Introduction to Digital Control 2. Discrete-Time Systems 3. Modeling of Digital Control Systems 4. Stability of Digital Control Systems 5. Analog Control System Design 6. Digital Control System Design 7. State–Space Representation 8. Properties of State–Space Models 9. State Feedback Control 10. Optimal Control 11. Elements of Nonlinear ...

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Control of Power Electronic Converters and Systems examines the theory behind power electronic converter control, including operation, modeling and control of basic converters. The book explores how to manipulate components of power electronics converters and systems to produce a desired effect by controlling system variables.

Control of Power Electronic Converters and Systems - 1st ...

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Military training solutions | Thales Group

(1982). A frequency matching method for model reduction of digital control systems. International Journal of Control: Vol. 35, No. 1, pp. 139-148.

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

The great advances made in large-scale integration of semiconductors, the resulting cost-effective digital processors and data storage devi ces, and the development of suitable programming techniques are all having increasing influence on the techniques of measurement and con trol and on automation in general. The application of digital techni ques 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 compu ters 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 mo dules, can be assembled into more cost-effective process microcompu ters.

Market_Desc.: " Engineering and postgraduate students in control engineering and electronic engineering." Practicing control systems engineers and researchers in this field." Engineers needing to learn digital control Special Features: " Developed from three existing lecture courses on digital control, systems identification and intermediate process control" Includes numerous examples, problems, solutions and Matlab code." Highlights the advantages of the polynomial approach." Assumes little or no prior knowledge of analogue control." Offers a very thorough treatment of the z-transform and frequency-domain analysis." Includes a thorough treatment of identification." Attempts the tuning of PID controllers using model-based control techniques." Concludes each chapter with a 2018 problems' section.The distinguishing feature of the Indian edition of this book is the accompanying CD which contains:- A ten minute video introduction to the book, using slides- Set of chapter wise presentation slides for teachers with animation- Set of slides for students, with four slides on one page- Matlab code, in zip format and also as individual files, arranged in a directory structure- Scilab code in the same format as the Matlab code- Scilab software, using which one can install Scilab- Spoken tutorial on Scilab that explains how to install Scilab About The Book: This book is about the design of digital controllers. An attempt has been made to present digital control from scratch. The book is organized into five parts. The first deals with modeling, the second concerned with the topic of signal processing, the third devoted to identification of plants from measurements, fourth section looks at the transfer function approach to control design and the last section is devoted to state space techniques for control design. The topics of observers, Kalman filter and combined controller and observer have also been included.

Good.No Highlights.No Markup.all pages are intact, Slight Shelfwear,may have the corners slightly dented, may have slight color changes/slightly damaged spine.

This comprehensive text on control systems is designed for undergraduate students pursuing courses in electronics and communication engineering, electrical and electronics engineering, telecommunication engineering, electronics and instrumentation engineering, mechanical engineering, and biomedical engineering. Appropriate for self-study, the book will also be useful for AMIE and IETE students. Written in a student-friendly readable manner, the book, now in its Second Edition, explains the basic fundamentals and concepts of control systems in a clearly understandable form. It is a balanced survey of theory aimed to provide the students with an in-depth insight into system behaviour and control of continuous-time control systems. All the solved and unsolved problems in this book are classroom tested, designed to illustrate the topics in a clear and thorough way. NEW TO THIS EDITION• One new chapter on Digital control systems• Complete answers with figures• Root locus plots and Nyquist plots redrawn as per MATLAB output• MATLAB programs at the end of each chapter• Glossary at the end of chapters KEY FEATURES• Includes several fully worked-out examples to help students master the concepts involved. • Provides short questions with answers at the end of each chapter to help students prepare for exams confidently. • Offers fill in the blanks and objective type questions with answers at the end of each chapter to quiz students on key learning points. • Gives chapter-end review questions and problems to assist students in reinforcing their knowledge. Solution Manual is available for adopting faculty.

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.

Introduction to state-space methods covers feedback control; state-space representation of dynamic systems and dynamics of linear systems; frequency-domain analysis; controllability and observability; shaping the dynamic response; more. 1986 edition.

This Encyclopedia of Control Systems, Robotics, and Automation is a component of the global Encyclopedia of Life Support Systems EOLSS, which is an integrated compendium of twenty one Encyclopedias. This 22-volume set contains 240 chapters, each of size 5000-30000 words, with perspectives, applications and extensive illustrations. It is the only publication of its kind carrying state-of-the-art knowledge in the fields of Control Systems, Robotics, and Automation and is aimed, by virtue of the several applications, at the following five major target audiences: University and College Students, Educators, Professional Practitioners, Research Personnel and Policy Analysts, Managers, and Decision Makers and NGOs.

Signal processing in digital control - Models of digital control devices and systems - Design of digital control algorithms - Control system analysis using state variable methods - Variable analysis of digital control systems - Pole-placement design and state observers - Lyapunov stability analysis - Linear quadratic optimal control - Nonlinear control systems - Neural networks for control - Fuzzy control.

This book is written for use as a text in an introductory course in control systems. The classical as well as the state space approach is included and integrated as much as possible. The first part of the book deals with analysis in the time domain. All the graphical techniques are presented in one chapter and the latter part of the book deals with some advanced material. It is intended that the student should already be familiar with Laplace transformations and have had an introductory course in circuit analysis or vibration theory. To provide the student with an understanding of correlation concepts in control theory, a new chapter dealing with stochastic inputs has been added. Also AppendixA has been significantly expanded to cover the theory of Laplace transforms and z-transforms. The book includes worked examples and problems for solution and an extensive bibliography as a guide for further reading.

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