

Control Systems Engineering Nagrath Gopal

SIGNALS AND SYSTEMS
Control Systems
Engineering
Digital Control Engineering
An Introduction to Thermodynamics and Statistical Physics
Control Systems Engineering
Modern Control Systems
Modern Control Engineering
Control Systems Engineering
Basic Electronics
Control Systems Engineering
THEORY AND PROBLEMS OF BASIC ELECTRICAL ENGINEERING,,
Second Edition
Control Systems Engineering
The Theory of Machines
CONTROL SYSTEMS
Control System Engineering
Modern Control System Theory
MODERN CONTROL ENGINEERING
Power System Engineering,
3e
Electrical Measurements
Control Systems Engineering
Construction Process Planning and Management
Automatic Control Systems
Digital Control and State Variable Methods
Control Systems
Control Systems Engineering
Power System Engineering
Control Systems Engineering, 3/e, 3rd Edition
Control Systems Engineering
Control Systems
Control Systems (As Per Latest Jntu Syllabus)
Signals & Systems 2E
Control System Design
ROBOTICS AND CONTROL
Textbook Of Control Systems Engineering (Vtu)
CONTROL ENGINEERING
Basic Electrical Engineering
Electric Machines (Sigma)
Modern Power System Analysis
Modern Control System Theory
Modern Control System Theory

SIGNALS AND SYSTEMS

Control Systems Engineering

The book gives an exhaustive exposition of the fundamental concepts, techniques and devices in Basic Electronics Engineering. The book covers the basic course in basic electronics of almost all the Indian technical universities and some foreign universities as well. It is particularly well suited undergraduate students of all Engineering disciplines. Diploma students of EEE and ECE will find useful too. Basic Electronics is designed as the one-stop solution for those attempting to teach as well as study a course on Basic Electronics. The carefully developed pedagogy will help the instructor pick thought-provoking questions for tutorials and examinations, as well as allow plenty of practice for the students.

Salient Features • Approach modular, and exposition of subject matter through illustrations • Block-diagrams and circuit diagrams used aplenty to enhance understanding • Pedagogy count and features: • Solved Examples- 136 • MCQs- 189 • Review Questions- 235 • Problems- 163 • Diagrams- 409

Digital Control Engineering

This book presents topics in an easy to understand manner with thorough explanations and detailed illustrations, to enable students to understand the basic underlying concepts. The fundamental concepts, graphs, design and analysis of control systems are presented in an elaborative manner. Throughout the book, carefully chosen examples are

given so that the reader will have a clear understanding of the concepts.

An Introduction to Thermodynamics and Statistical Physics

Designed for a short course on control systems or as a review for the professional engineer, this book provides a lucid introduction to modern control systems topics. The five chapters, "State-Variable Analysis of Continuous-Time Systems," "Analysis of Discrete-Time Systems," "Stability Analysis of Non-Linear Systems," "Optimal Control," and "Adaptive Control" have been written to emphasize concepts and provide the basic mathematical derivations. Complete coverage of standard topics, e.g., eigenvalues, eigenvectors, the z-transform, Lyapunov's Method, controllability, observability, etc. are discussed. Numerous examples and exercises have also been included in the book for self-study. A CD-ROM with MATLAB applications and third-party simulations provides practical design techniques and observations of real control systems.

Control Systems Engineering

This textbook offers an advanced undergraduate or initial graduate level introduction to topics such as kinetic theory, equilibrium statistical mechanics and the theory of fluctuations from a modern perspective. The aim is to provide the reader with the necessary tools of probability theory and thermodynamics (especially the thermodynamic potentials) to enable

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subsequent study at advanced graduate level. At the same time, the book offers a bird's eye view on arguments that are often disregarded in the main curriculum courses. Further features include a focus on the interdisciplinary nature of the subject and in-depth discussion of alternative interpretations of the concept of entropy. While some familiarity with basic concepts of thermodynamics and probability theory is assumed, this does not extend beyond what is commonly obtained in basic undergraduate curriculum courses.

Modern Control Systems

Modern Control Engineering

This hallmark text on Power System Engineering provides the readers a comprehensive account of all key concepts in the field. The book includes latest technology developments and talks about some crucial areas of Power system, such as Transmission & Distribution, Analysis & Stability, and Protection & Switchgear. With its rich content, it caters to the requirements of students, instructors, and professionals.

Control Systems Engineering

Basic Electronics

Control Systems Engineering

The Book Provides An Integrated Treatment Of Continuous-Time And Discrete-Time Systems For Two Courses At Undergraduate Level Or One Course At Postgraduate Level. The Stress Is On The Interdisciplinary Nature Of The Subject And Examples Have Been Drawn From Various Engineering Disciplines To Illustrate The Basic System Concepts. A Strong Emphasis Is Laid On Modeling Of Practical Systems Involving Hardware; Control Components Of A Wide Variety Are Comprehensively Covered. Time And Frequency Domain Techniques Of Analysis And Design Of Control Systems Have Been Exhaustively Treated And Their Interrelationship Established. Adequate Breadth And Depth Is Made Available For A Second Course. The Coverage Includes Digital Control Systems: Analysis, Stability And Classical Design; State Variables For Both Continuous-Time And Discrete-Time Systems; Observers And Pole-Placement Design; Liapunov Stability; Optimal Control; And Recent Advances In Control Systems: Adaptive Control, Fuzzy Logic Control, Neural Network Control. Salient Features * State Variables Concept Introduced Early In Chapter 2 * Examples And Problems Around Obsolete Technology Updated. New Examples Added * Robotics Modeling And Control Included * Pid Tuning Procedure Well Explained And Illustrated * Robust Control Introduced In A Simple And Easily Understood Style * State Variable Formulation And Design Simplified And Generalizations Built On Examples * Digital Control; Both Classical And Modern Approaches, Covered In

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Depth * A Chapter On Adaptive, Fuzzy Logic And Neural Network Control, Amenable To Undergraduate Level Use, Included * An Appendix On Matlab With Examples From Time And Frequency Domain Analysis And Design, Included

THEORY AND PROBLEMS OF BASIC ELECTRICAL ENGINEERING,, Second Edition

Control Systems Engineering

Units and Dimensions Review of fundamental and derived units. S.I. units. Dimensional equations, Problems. Measurement of Resistance, Inductance, and Capacitance Wheatstone's bridge - Sensitivity analysis, Limitations, Kelvin's double bridge. Earth resistance measurement using Megger. Measurement of earth resistance by fall of potential method, Anderson's bridge, Schering bridge, Sources and detectors, Shielding of bridges, Problems. Extension of Instrument Ranges Shunts and multipliers. Construction and theory of instrument transformers. Equations for ratio and phase angle errors of C.T. and P.T. Turns compensation, illustrative examples. Measurement of Power and Related Parameters Dynamometer wattmeter. LPF wattmeter. Measurement of real and reactive power in three phase circuits. Induction type energy meter - construction, theory, errors, adjustments and calibration. Principle of working of electronic energy meter. Construction and operation of electro-

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dynamometer single-phase power factor meter. Weston frequency meter and phase sequence indicator. Electronic Instruments True RMS responding voltmeter, Electronic multimeters, Digital voltmeters, Q meter. Dual trace oscilloscope - front panel details of a typical dual trace oscilloscope. Method of measuring amplitude, phase, frequency, period. Use of Lissajous patterns. Working of a digital storage oscilloscope. Transducers Classification and selection of transducers, Strain gauges, LVDT. Temperature measurements. Photoconductive and photo-voltaic cells. Interfacing resistive transducers to electronic circuits. Introduction to data acquisition systems. Display Devices and Signal Generators X-Y recorders, Nixie tubes LCD and LED displays, Signal generators and function generators.

The Theory of Machines

About the book The book provides an integrated treatment of continuous-time and discrete-time systems for two courses at postgraduate level, or one course at undergraduate and one course at postgraduate level. It covers mainly two areas of modern control theory, namely; system theory, and multivariable and optimal control. The coverage of the former is quite exhaustive while that of latter is adequate with significant provision of the necessary topics that enables a research student to comprehend various technical papers. The stress is on interdisciplinary nature of the subject. Practical control problems from various engineering disciplines have been drawn to illustrate the potential concepts.

Most of the theoretical results have been presented in a manner suitable for digital computer programming along with the necessary algorithms for numerical computations.

CONTROL SYSTEMS

Control System Engineering

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**

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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.

Modern Control System Theory

MODERN CONTROL ENGINEERING

This book covers the theory and mathematics needed to understand the concepts in control system design. Chapter 1 deals with compensation network design. Nonlinear control systems, including phase-plane analysis and the Delta method are presented in chapter 2. The analysis and design aspects based on the state variable approach are presented in Chapter 3. The discrete time control systems form the basis for the study of digital control systems in Chapter 4, covering the frequency response, root locus analysis, and stability considerations for discrete-time control systems. The stability analysis based on the Lyapunov method is given in chapter 5. The appendices include two US government articles on industrial control systems (NIST) and the control system design for a solar energy storage system (U.S. Dept. of Energy). Concepts in the text are supported by numerical

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examples. Features: • Covers the theory and mathematics needed to understand the concepts in control system design • Includes two U.S. government articles on industrial control systems (NIST) and the control system design for a solar energy storage system (U.S. Department of Energy)

Power System Engineering, 3e

This comprehensive book with a blend of theory and solved problems on Basic Electrical Engineering has been updated and upgraded in the Second Edition as per the current needs to cater undergraduate students of all branches of engineering and to all those who are appearing in competitive examinations such as AMIE, GATE and graduate IETE. The text provides a lucid yet exhaustive exposition of the fundamental concepts, techniques and devices in basic electrical engineering through a series of carefully crafted solved examples, multiple choice (objective type) questions and review questions. The book covers, in general, three major areas: electric circuit theory, electric machines, and measurement and instrumentation systems.

Electrical Measurements

Control Systems Engineering

The coverage of the former is quite exhaustive while that of latter is adequate with significant provision of the necessary topics that enables a research student

to comprehend various technical papers. The stress is on the interdisciplinary nature of the subject. Practical control problems from various engineering disciplines have been drawn to illustrate the potential concepts.

Construction Process Planning and Management

Text for a first course in control systems, revised (1st ed. was 1970) to include new subjects such as the pole placement approach to the design of control systems, design of observers, and computer simulation of control systems. For senior engineering students. Annotation copyright Book News, Inc.

Automatic Control Systems

The Book Provides An Integrated Treatment Of Continuous-Time And Discrete-Time Systems For Two Courses At Undergraduate Level Or One Course At Postgraduate Level. The Stress Is On The Interdisciplinary Nature Of Subject And Examples Have Been Drawn From Various Engineering Disciplines To Illustrate The Basic System Concepts. A Strong Emphasis Is Laid On Modeling Of Practical Systems Involving Hardware; Control Components Of A Wide Variety Are Comprehensively Covered. Time And Frequency Domain Techniques Of Analysis And Design Of Control Systems Have Been Exhaustively Treated And Their Interrelationship Established. Adequate Breadth And Depth Is Made Available For Second Course. The Coverage Includes Digital Control Systems: Analysis, Stability And

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Classical Design; State Variables For Both Continuous-Time And Discrete-Time Systems; Observers And Pole-Placement Design; Liapunov Stability; Optimal Control; And Recent Advances In Control Systems: Adaptive Control, Fuzzy Logic Control, Neural Network Control. Silent Features * State Variables Concept Introduced In Chapter 2 * Examples And Problems Around Obsolete Technology Updated. New Examples Added * Robotics Modeling And Control Included * Pid Tuning Procedure Well Explained And Illustrated * Robust Control Introduced In A Simple And Easily Understood Style * State Variable Formulation And Design Simplified And Generalizations Built On Examples * Digital Control; Both Classical And Modern Approaches, Covered In Depth * A Chapter On Adaptive, Fuzzy Logic And Neural Network Control, Amenable To Undergraduate Level Use, Included * Chapter On Nonlinear Systems Added * An Appendix In Matlab With Examples From Time And Frequency Domain Analysis And Design, Included.

Digital Control and State Variable Methods

This sigma Series book on Electric Machines deals with the fundamentals of the subject through problem solving technique and provides innumerable solved, unsolved problems along with review and objective type questions. Features Complete coverage of fundamentals of electrical machines. Emphasis is placed on the basic concepts, theorems, and problem-solving techniques. Each chapter begins with brief theoretical explanation needed for solving the related

problems. 1640 problems given in the book.

Control Systems

Control Systems Engineering

Key Features: Examples have been provided to maintain the balance between different disciplines of engineering. Robust control, Robotic control and Robotic modeling introduced. PID learning procedures illustrated. Updation of obsolete technology with examples. State variable formulation and design simplified. Digital control, both classical and modern approaches, covered in depth. Chapters on Nonlinear Systems, Adaptive, Fuzzy Logic and Neural Network Control included. An appendix in MATLAB with examples from time and frequency domain analysis and design included. About the Book: The book provides an integrated treatment of continuous and discrete-time systems for two courses at undergraduate level or one course at postgraduate level. The stress is on the interdisciplinary nature of subject and examples have been drawn from various engineering disciplines to illustrate the basic system concepts. A strong emphasis is laid on modeling of practical systems involving hardware; control components of a wide variety are comprehensively covered. Time and frequency domain techniques of analysis and design of control systems have been exhaustively treated and their interrelationship established. Adequate breadth and depth is made available for second course. The coverage includes

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digital control systems: analysis, stability and classical design; state variables for both continuous and discrete-time systems; observers and pole-placement design; Liapunov stability; optimal control; and recent advances in control systems: adaptive control, fuzzy logic control, neural network control.

Power System Engineering

Focuses on the first control systems course of BTech, JNTU, this book helps the student prepare for further studies in modern control system design. It offers a profusion of examples on various aspects of study.

Control Systems Engineering, 3/e, 3rd Edition

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 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

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illustrate the topics in a clear and thorough way. **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.

Control Systems Engineering

Designed to make the material easy to understand, this clear and thorough book emphasizes the practical application of systems engineering to the design and analysis of feedback systems. Nise applies control systems theory and concepts to current real-world problems, showing readers how to build control systems that can support today's advanced technology.

Control Systems

Control Systems (As Per Latest Jntu Syllabus)

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

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provides an up-to-date treatment of digital control, state variable analysis and design, and nonlinear control.

Signals & Systems 2E

This introduction to automatic control systems has been updated to reflect the increasing use of computer-aided learning and design. Aiming at a more accessible approach, this edition demonstrates the solution of complex problems with the aid of computer software; integrates several real world applications; provides a discussion of steady-state error analysis, including nonunity feedback systems; discusses circuit-realization of controller transfer functions; offers a treatment of Nyquist criterion on systems with nonminimum-phase transfer functions; explores time-domain and frequency domain designs side-by-side in one chapter; and adds a chapter on Design of Discrete-Data Control Systems.

Control System Design

Control System Analysis Examples of control systems, Open loop control systems, Closed loop control systems. Transfer function. Types of feedback and feedback control system characteristics - Noise rejection; Gain, Sensitivity, Stability. Mathematical Modeling of Systems Importance of a mathematical model, Block diagrams, Signal flow graphs, Mason's gain formula and its application to block diagram reduction. State space method, Solving time-invariant system, Transfer matrix. Transient and Steady State -

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Response Analysis Impulse response function, First order system, Second order system, Time domain specifications of systems, Analysis of transient-response using second order model. Classification of control systems according to Type of systems, Steady - state errors, Static error constants, Steady - state analysis of different types of systems using step, ramp and parabolic input signals. Stability Analysis Concept of stability, Stability analysis using Routh's stability criterion, Absolute stability, Relative stability, Root-Locus plots, Summary of general rules for constructing Root-Locus, Root-Locus analysis of control systems. Compensation techniques-Log, lead, log-lead. Frequency-Response Analysis Frequency domain specifications, Resonance peak and peak resonating frequency, Relationship between time and frequency domain specification of systems. Bode plots, Polar plots, Log-magnitude Vs phase plots, Nyquist stability criterion, Stability analysis, Relative stability, Gain margin, Phase margin, Stability analysis of system using Bode plots. Closed-loop frequency response-Constant gain and phase loci, Nichol's chart and their use in stability study of systems. Control Components and Controller D.C. and A.C. servomotors, Servoamplifier, Potentiometer, Synchro transmitters, Synchro receivers, Synchro control transformer, Stepper motors. Discontinuous controller modes, Continuous controller modes, Composite controllers.

ROBOTICS AND CONTROL

By their very nature, construction projects can create

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seemingly endless opportunities for conflict. Written by a best selling author with over 40 years of experiences in the construction and general contracting business, Construction Process Planning and Management provides you with the necessary tools to save time and money on your construction project. In this book, Sid Levy provides valuable advice for avoiding or working through the common problems that are a result of the long-term nature of construction projects, failure to select a ?project delivery system? appropriate to the project, incomplete drawing and specifications, unrealistic scheduling, poor communication and coordination among participants, and inadequate contract administration. From project genesis, through design development to contractor and contract selection, on to construction oversight, punch list and successful project close-out, this book will point out those pitfalls to avoid and offer practical advice at every step along the way. Administer the general construction process including solicitation of contractor's qualifications (pre-qualify bidders), comparative analysis of bid packages, recommendation for contract award, contract document negotiation and documentation of job change orders Provide Project Planning and on-site management and coordination of all construction projects Ensure compliance of building construction rules and regulations and collaborate with chief engineers to monitor quality of construction Conduct technical/plan review of construction documents and submit written responses identifying required corrections or changes Design, implement and oversee Company standards for construction policies, practices and processes

Textbook Of Control Systems Engineering (Vtu)

CONTROL ENGINEERING

Basic Electrical Engineering

Features The book provides a compressive overview of the fundamental skills underlying the mechanism and control of manipulators. Detailed chapter on Velocity Transformations, jacobian and Singularities. Trajectory Planning is developed using both joint space and Cartesian space methods. Dynamic Modeling is treated by Lagrange-Euler and Euler-Newton formulations; complex derivations are put in the appendix to ensure a smooth flow for the reader. A comprehensive chapter on Robotic Control covering control strategies like PD, PID, computed torque control, force and impedance control at an appropriate level. A METLAB tutorial on using the package for Robotics is included as an appendix. A full chapter on the industrial applications of robots. All important industrial robot configurations with varying degrees of freedom are covered in various chapters and solved examples. An elaborate chapter (Chapter 9) devoted to Robotic Sensors and Vision. Includes over 50 solved examples and more than 270 simple-to-complex end-of-chapter exercises. Appendix on the underlying maths - Linear Algebra, Moment of Inertia Tensor and Equations of Motion

Electric Machines (Sigma)

This book represents an attempt to organize and unify the diverse methods of analysis of feedback control systems and presents the fundamentals explicitly and clearly. The scope of the text is such that it can be used for a two-semester course in control systems at the level of undergraduate students in any of the various branches of engineering (electrical, aeronautical, mechanical, and chemical). Emphasis is on the development of basic theory. The text is easy to follow and contains many examples to reinforce the understanding of the theory. Several software programs have been developed in MATLAB platform for better understanding of design of control systems. Many varied problems are included at the end of each chapter. The basic principles and fundamental concepts of feedback control systems, using the conventional frequency domain and time-domain approaches, are presented in a clearly accessible form in the first portion (chapters 1 through 10). The later portion (chapters 11 through 14) provides a thorough understanding of concepts such as state space, controllability, and observability. Students are also acquainted with the techniques available for analysing discrete-data and nonlinear systems. The hallmark feature of this text is that it helps the reader gain a sound understanding of both modern and classical topics in control engineering.

Modern Power System Analysis

This hallmark text on Power System Engineering has

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been revised extensively to bring in several new topics and update the contents with the latest technological developments. The book now covers the complete undergraduate syllabus of Power System Engineering course. All topics are supported with examples employing two/three/four bus structures.

Modern Control System Theory

Books by the same author... Digital Control Engineering M. Gopal Recent developments in LSI technology and the consequent availability of inexpensive microprocessors, memory chips and analog-to-digital converters have made it possible to use computers as integral part of control systems. This book presents control theory that is relevant to the analysis and design of computer-controlled systems. Among its features, the book: contains appendices that summarize the relevant background material; summarizes the theoretical and practical aspects of a large class of transform-domain and state-space design algorithms; describes the background to many current approaches to self-tuning control; includes a computer-aided-design package; discusses basic characteristics of stepping motors and their associated drives; presents important hardware and software aspects of implementation of digital control algorithms using microprocessors; includes three case studies on microprocessor-based control. Control Systems Engineering (2/e) I.J. Nagrath and M. Gopal The book provides an integrated treatment of continuous-time and discrete-time linear and continuous-time

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nonlinear systems for two courses at undergraduate level or one course at undergraduate level and one course at postgraduate level. The stress is on the interdisciplinary nature of the subject and examples have been drawn from various engineering disciplines to illustrate the basic system concepts. A strong emphasis is laid on modelling of practical systems involving hardware; control components of a wide variety are comprehensively covered. Time and frequency domain techniques of analysis and design of control systems have been exhaustively treated and their interrelationship established. The concepts and criteria of stability are progressively built and interspersed at suitable locations culminating in the generalized criteria of Liapunov and Popov. A chapter on sampled-data control systems covering analysis, stability and design has been added in this edition. Modern approaches are introduced through a full chapter on state variables for both continuous and discrete-time systems; it includes observer and pole placement design. A new chapter on optimal control gives both transfer function and time domain approaches. The optimal linear regulator problem is treated through dynamic programming. This book ends with a chapter on nonlinear control systems and their analysis via phase-plane and describing function techniques.

Modern Control System Theory

This book offers a comprehensive introduction to the subject of control engineering. Both continuous- and discrete-time control systems are treated, although

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the emphasis is on continuous-time systems. A chapter each is devoted to in-depth analysis of non-linear control systems, control system components, and optimal control theory. The book also introduces students to the modern concepts of neural fuzzy and adaptive learning systems.

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