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Modern Control Systems, 12e, is ideal for an introductory undergraduate course in control systems for engineering students. Written to be equally useful for all engineering disciplines, this text is organized around the concept of control systems theory as it has been developed in the frequency and time domains. It provides coverage of classical control, employing root locus design, frequency and response design using Bode and Nyquist plots. It also covers modern control methods based on state variable models including pole placement design techniques with full-state feedback controllers and full-state observers. Many examples throughout give students ample opportunity to apply the theory to the design and analysis of control systems. Incorporates computer-aided design and analysis using MATLAB and LabVIEW MathScript.

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.

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

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The book represents a modern treatment of classical control theory and application concepts. Theoretically, it is based on the state-space approach, where the main concepts have been derived using only the knowledge from a first course in linear algebra. Practically, it is based on the MATLAB package for computer-aided control system design, so that the presentation of the design techniques is simplified. The inclusion of MATLAB allows deeper insights into the dynamical behaviour of real physical control systems, which are quite often of high dimensions. Continuous-time and discrete-time control systems are treated simultaneously with a slight emphasis on the continuous-time systems, especially in the area of controller design. Instructor's Manual (0-13-264730-3).

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.

"Illustrates the analysis, behavior, and design of linear control systems using classical, modern, and advanced control techniques. Covers recent methods in system identification and optimal, digital, adaptive, robust, and fuzzy control, as well as stability, controllability, observability, pole placement, state observers, input-output decoupling, and model matching."

Well-written, practice-oriented textbook, and compact textbook Presents the contemporary state of the art of control theory and its applications Introduces traditional problems that are useful in the automatic control of technical processes, plus presents current issues of control Explains methods can be easily applied for the determination of the decision algorithms in computer control and management systems

Modern Control of DC-Based Power Systems: A Problem-Based Approach addresses the future challenges of DC Grids in a problem-based context for practicing power engineers who are challenged with integrating DC grids in their existing architecture. This reference uses control theory to address the main concerns affecting these systems, things like generation capacity, limited maximum load demands and low installed inertia which are all set to increase as we move towards a full renewable model. Offering a new approach for a problem-based, practical approach, the book provides a coordinated view of the topic with MATLAB®, Simulink® files and additional ancillary material provided. Includes Simulink® Files (of examples and for lab training classes) and MATLAB® files Presents video slides to support the problem-based approach to understanding DC Power System control and application Provides stability analysis of DC networks and examples of common stability problems

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