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"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,

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controllability, observability, pole placement, state observers, input-output decoupling, and model matching."

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

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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.

The definitive guide to control system design Modern Control System Theory and Design, Second Edition

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offers the most comprehensive treatment of control systems available today. Its unique text/software combination integrates classical and modern control system theories, while promoting an interactive, computer-based approach to design solutions. The sheer volume of practical examples, as well as the hundreds of illustrations of control systems from all engineering fields, make this volume accessible to students and indispensable for professional engineers. This fully updated Second Edition features a new chapter on modern control system design, including state-space design techniques, Ackermann's formula for pole placement, estimation, robust control, and the H method for

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- * Free MATLAB software containing problem solutions, which can be retrieved from The Mathworks, Inc., anonymous FTP server at <ftp://ftp.mathworks.com/pub/books/shinners>
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- * A complete set of working digital computer programs
- * Reviews of commercial software packages for control system analysis
- * An extensive set of new, worked-out, illustrative solutions added in dedicated sections at the end of chapters
- * Expanded end-of-chapter problems--one-third with answers to facilitate self-study
- * An updated solutions manual containing

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solutions to the remaining two-thirds of the problems. Superbly organized and easy-to-use, Modern Control System Theory and Design, Second Edition is an ideal textbook for introductory courses in control systems and an excellent professional reference. Its interdisciplinary approach makes it invaluable for practicing engineers in electrical, mechanical, aeronautical, chemical, and nuclear engineering and related areas.

Control Systems Engineering, 7th Edition has become the top selling text for this course. It takes a practical approach, presenting clear and complete explanations. Real world examples demonstrate the

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For junior-level courses in System Dynamics, offered in Mechanical Engineering and Aerospace Engineering departments. This text presents students with the basic theory and practice of system dynamics. It

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introduces the modeling of dynamic systems and response analysis of these systems, with an introduction to the analysis and design of control systems.

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