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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.

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 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.

Mathematical Control Theory: An Introduction presents, in a mathematically precise manner, a unified introduction to deterministic control theory. In addition to classical concepts and ideas, the author covers the stabilization of nonlinear systems using topological methods, realization theory for nonlinear systems, impulsive control and positive systems, the control of rigid bodies, the stabilization of infinite dimensional systems, and the solution of minimum energy problems. "Covers a remarkable number of topics....The book presents a large amount of material very well, and its use is highly recommended." --Bulletin of the AMS

Geared primarily to an audience consisting of mathematically advanced undergraduate or beginning graduate students, this text may additionally be used by engineering students interested in a rigorous, proof-oriented systems

course that goes beyond the classical frequency-domain material and more applied courses. The minimal mathematical background required is a working knowledge of linear algebra and differential equations. The book covers what constitutes the common core of control theory and is unique in its emphasis on foundational aspects. While covering a wide range of topics written in a standard theorem/proof style, it also develops the necessary techniques from scratch. In this second edition, new chapters and sections have been added, dealing with time optimal control of linear systems, variational and numerical approaches to nonlinear control, nonlinear controllability via Lie-algebraic methods, and controllability of recurrent nets and of linear systems with bounded controls.

The definitive guide to control system design Modern Control System Theory and Design, Second Edition 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 control system design. Other notable additions to this edition are: \* 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](http://ftp.mathworks.com/pub/books/shinners) \* Programs and tutorials on the use of MATLAB incorporated directly into the text \* 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 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.

The practice of engineering noise control demands a solid understanding of the fundamentals of acoustics, the practical application of current noise control technology and the underlying theoretical concepts. This fully revised and updated fourth edition provides a comprehensive explanation of these key areas clearly, yet without oversimplification. Written by experts in their field, the practical focus echoes advances in the discipline, reflected in the fourth edition's new material, including: completely updated coverage of sound transmission loss, mufflers and exhaust stack directivity a new chapter on practical numerical acoustics thorough explanation of the latest instruments for measurements and analysis. Essential reading for advanced students or those already well versed in the art and science of noise control, this distinctive text can be used to solve real world problems encountered by noise and vibration consultants as well as engineers and occupational hygienists.

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