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Script 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.

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For courses in Control Theory Developing Problem-Solving Skills Through Integrated Design and Analysis The purpose of Dorf's Modern Control Systems, Thirteenth Edition is to present the structure of feedback control theory and to provide a sequence of exciting discoveries. The book demonstrates various real-world, global engineering problems while touching on evolving design strategies like green technology. Some of the themes at-hand include climate change, clean water, sustainability, waste management, emissions reduction, and minimizing energy. Throughout the text, students apply theory to the design

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and analysis of control systems. The Thirteenth Edition continues to explore the role of and need for automated and precise control systems in green engineering. Key examples of green engineering, such as wind turbine control and the modeling of a photovoltaic generator to achieve maximum power delivery, are discussed in detail. The text is organized around the concept of control systems theory in the context of frequency and time domains. Written to be equally useful for all engineering disciplines, it covers topics such as classical control, employing root locus

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design, frequency and response design using Bode and Nyquist plots.

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concepts accessible to students with limited backgrounds. The text is geared toward a single-semester senior course or a graduate-level class for students of electrical engineering. The opening chapters constitute a basic treatment of feedback design. Topics include a detailed formulation of the control design program, the fundamental issue of performance/stability robustness tradeoff, and the graphical design technique of loopshaping. Subsequent chapters extend the discussion of the loopshaping technique and connect it with notions of optimality. Concluding chapters examine controller design

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via optimization, offering a mathematical approach that is useful for multivariable systems.

Advanced Control Design with Application to Electromechanical Systems represents the continuing effort in the pursuit of analytic theory and rigorous design for robust control methods. The book provides an overview of the feedback control systems and their associated definitions, with discussions on finite dimension vector spaces, mappings and convex analysis. In addition, a comprehensive treatment of continuous control system design

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is presented, along with an introduction to control design topics pertaining to discrete-time systems. Other sections introduces linear H1 and H2 theory, dissipativity analysis and synthesis, and a wide spectrum of models pertaining to electromechanical systems. Finally, the book examines the theory and mathematical analysis of multiagent systems. Researchers on robust control theory and electromechanical systems and graduate students working on robust control will benefit greatly from this book. Introduces a coherent and unified framework for studying robust control theory Provides

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the control-theoretic background required to read and contribute to the research literature Presents the main ideas and demonstrations of the major results of robust control theory Includes MATLAB codes to implement during research

A guide to common control principles and how they are used to characterize a variety of physiological mechanisms The second edition of Physiological Control Systems offers an updated and comprehensive resource that reviews the fundamental concepts of classical control theory and how engineering

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methodology can be applied to obtain a quantitative understanding of physiological systems. The revised text also contains more advanced topics that feature applications to physiology of nonlinear dynamics, parameter estimation methods, and adaptive estimation and control. The author—a noted expert in the field—includes a wealth of worked examples that illustrate key concepts and methodology and offers in-depth analyses of selected physiological control models that highlight the topics presented. The author discusses the most noteworthy developments in system identification, optimal control, and

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Nonlinear dynamical analysis and targets recent bioengineering advances. Designed to be a practical resource, the text includes guided experiments with simulation models (using Simulink/Matlab). Physiological Control Systems focuses on common control principles that can be used to characterize a broad variety of physiological mechanisms. This revised resource: Offers new sections that explore identification of nonlinear and time-varying systems, and provide the background for understanding the link between continuous-time and discrete-time dynamic models Presents helpful, hands-on

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Global issues such as climate change, clean water, sustainability, waste management, and energy use have caused many engineers to re-think existing approaches to engineering design. Control systems in green engineering designs have led to products that minimize

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