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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.

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

The goal of this book is to help students learn to use LabVIEW[] on their own. Learning with LabVIEW is the textbook that accompanies the LabVIEW Student Edition from National Instruments, Inc. This textbook, as well as the LabVIEW software (LabVIEW software is not included with this book), has undergone a significant revision from the previous edition. Learning with LabVIEW teaches basic programming concepts in a graphical environment and relates them to real-world applications in academia and industry. Understanding and using the intuitive and powerful LabVIEW software is easier than ever before. As you read through the book and work through the examples, we hope you will agree that this book is more of a personal tour guide than a software manual.

An excellent introduction to feedback control system design, this book offers a theoretical approach that captures the essential issues and can be applied to a wide range of practical problems. Its explorations of recent developments in the field emphasize the relationship of new procedures to classical control theory, with a focus on single input and output systems that keeps 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 via optimization, offering a mathematical approach that is useful for multivariable systems.

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 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 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 experimentation with computer simulation models Contains fully updated problems and exercises at the end of each chapter Written for biomedical engineering students and biomedical scientists, Physiological Control Systems, offers an updated edition of this key resource for understanding classical control theory and its application to physiological systems. It also contains contemporary topics and methodologies that shape bioengineering research today.

Information technology is ever-changing, and that means that those who are working, or planning to work, in the field of IT management must always be learning. In the new edition of the acclaimed Information Technology for Management, the latest developments in the real world of IT management are covered in detail thanks to the input of IT managers and practitioners from top companies and organizations from around the world. Focusing on both the underlying technological developments in the field and the important business drivers performance, growth and sustainability—the text will help students explore and understand the vital importance of IT's role vis-a-vis the three components of business performance improvement: people, processes, and technology. The book also features a blended learning approach that employs content that is presented visually, textually, and interactively to enable students with different learning styles to easily understand and retain information. Coverage of next technologies is up to date, including cutting-edged technologies, and case studies help to reinforce material in a way that few texts can.

This best-selling introduction to automatic control systems has been updated to reflect the increasing use of computer-aided learning and design, and revised to feature a more accessible approach — without sacrificing depth.

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 pollution, reduce the risk to human health, and improve the environment. An example is the use of wireless measurements on a robotic-controlled mobile sensing platform that measure key environmental parameters in a rain forest.

