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Christopher Kilian is the Chairman of the Engineering Technologies Department at Anne Arundel Community College.Christopher Kilian is the author of 'Modern Control Technology', published 2005 under ISBN 9781401858063 and ISBN 1401858066.

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The text is both contemporary and comprehensive in scope, with supplemental information on various basic applied physics and mechanical concepts, such as linear and rotational motion, springs, friction, gears, levers, heat transfer, and energy transfer not found in other books in its class. Digital controllers and concepts are introduced early and referenced throughout the book. Analog concepts are also included. This edition features new material on digital "panel mount" controllers, differential gears, the insulated Gate Bipolar Transistor (IGBT), ultrasonic proximity sensors, inductive proximity sensors, ultrasonic flow sensors, and cascade control.

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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

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.

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.

In a clear and readable style, Bill Bolton addresses the basic principles of modern instrumentation and control systems, including examples of the latest devices, techniques and applications. Unlike the majority of books in this field, only a minimal prior knowledge of mathematical methods is assumed. The book focuses on providing a comprehensive introduction to the subject, with Laplace presented in a simple and easily accessible form, complimented by an outline of the mathematics that would be required to progress to more advanced levels of study. Taking a highly practical approach, Bill Bolton combines underpinning theory with numerous case studies and applications throughout, to enable the reader to apply the content directly to real-world engineering contexts. Coverage includes smart instrumentation, DAQ, crucial health and safety considerations, and practical issues such as noise reduction, maintenance and testing. An introduction to PLCs and ladder programming is incorporated in the text, as well as new information introducing the various software programmes used for simulation. Problems with a full answer section are also included, to aid the reader ' s self-assessment and learning, and a companion website (for lecturers only) at <http://textbooks.elsevier.com> features an Instructor ' s Manual including multiple choice questions, further assignments with detailed solutions, as well as additional teaching resources. The overall approach of this book makes it an ideal text for all introductory level undergraduate courses in control engineering and instrumentation. It is fully in line with latest syllabus requirements, and also covers, in full, the requirements of the Instrumentation & Control Principles and Control Systems & Automation units of the new Higher National Engineering syllabus from Edexcel. * Assumes minimal prior mathematical knowledge, creating a highly accessible student-centred text * Problems, case studies and applications included throughout, with a full set of answers at the back of the book, to aid student learning, and place theory in real-world engineering contexts * Free online lecturer resources featuring supporting notes, multiple-choice tests, lecturer handouts and further assignments and solutions

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