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include any media, website access codes, or print supplements that may come packaged with the bound book. For senior-level or first-year graduate-level courses in control analysis and design, and related

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courses within engineering, science, and management. Feedback Control of Dynamic Systems, Sixth Edition is perfect for practicing control engineers who wish to maintain their skills. This revision of a top-

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selling textbook on feedback control with the associated web site, FPE6e.com, provides greater instructor flexibility and student readability. Chapter 4 on A First Analysis of Feedback has been substantially

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rewritten to present the material in a more logical and effective manner. A new case study on biological control introduces an important new area to the students, and each chapter now includes a historical

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perspective to illustrate the origins of the field. As in earlier editions, the book has been updated so that solutions are based on the latest versions of MATLAB and SIMULINK.

Finally, some of the more

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exotic topics have been moved to the web site.

A combination of two texts authored by Patrick Dunn, this set covers sensor technology as well as basic measurement and data analysis subjects, a

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combination not covered together in other references. Written for junior-level mechanical and aerospace engineering students, the topic coverage allows for flexible approaches to using the

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combination book in courses. MATLAB® applications are included in all sections of the combination, and concise, applied coverage of sensor technology is offered. Numerous chapter examples and problems are

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included, with complete solutions available. Giving an applications-focused introduction to the field of Engineering Mathematics, this book presents the key mathematical concepts that

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engineers will be expected to know. It is also well suited to maths courses within the physical sciences and applied mathematics. It incorporates many exercises throughout the chapters.

Solving Control Engineering

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Problems with MATLAB
Design for Electrical and
Computer Engineers
With MATLAB and SIMULINK
Control System Engineering
Feedback Control of Dynamic
Systems
Digital controllers are part

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of nearly all modern personal, industrial, and transportation systems. Every senior or graduate student of electrical, chemical or mechanical engineering should therefore be familiar with the basic

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theory of digital controllers. This new text covers the fundamental principles and applications of digital control engineering, with emphasis on engineering design. Fadali and Visioli cover

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analysis and design of digitally controlled systems and describe applications of digital controls in a wide range of fields. With worked examples and Matlab applications in every chapter and many end-of-

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chapter assignments, this text provides both theory and practice for those coming to digital control engineering for the first time, whether as a student or practicing engineer.

Extensive Use of

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computational tools: Matlab sections at end of each chapter show how to implement concepts from the chapter Frees the student from the drudgery of mundane calculations and allows him to consider more subtle

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aspects of control system analysis and design An engineering approach to digital controls: emphasis throughout the book is on design of control systems. Mathematics is used to help explain concepts, but

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throughout the text discussion is tied to design and implementation. For example coverage of analog controls in chapter 5 is not simply a review, but is used to show how analog control systems map to digital

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control systems Review of Background Material: contains review material to aid understanding of digital control analysis and design. Examples include discussion of discrete-time systems in time domain and frequency

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domain (reviewed from linear systems course) and root locus design in s-domain and z-domain (reviewed from feedback control course)

Inclusion of Advanced Topics

In addition to the basic topics required for a one

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semester senior/graduate class, the text includes some advanced material to make it suitable for an introductory graduate level class or for two quarters at the senior/graduate level. Examples of optional topics

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are state-space methods, which may receive brief coverage in a one semester course, and nonlinear discrete-time systems

Minimal Mathematics

Prerequisites The mathematics background

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required for understanding most of the book is based on what can be reasonably expected from the average electrical, chemical or mechanical engineering senior. This background includes three semesters of

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calculus, differential equations and basic linear algebra. Some texts on digital control require more Modern Control Systems, 12e, is ideal for an introductory undergraduate course in control systems for

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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.

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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

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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

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control systems.

Incorporates computer-aided design and analysis using MATLAB and LabVIEW MathScript.

Text for a first course in control systems, revised (1st ed. was 1970) to

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include new subjects such as the pole placement approach to the design of control systems, design of observers, and computer simulation of control systems. For senior engineering students.

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Rich's Vascular Trauma E-
Book

Capitalism at the Crossroads
Principles of Bone Biology
State Space Analysis of
Control Systems

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Control Engineering
Modern Control Engineering
Prentice Hall

This open access Brief introduces the basic principles of control theory in a concise self-study guide. It complements the classic texts by emphasizing the simple conceptual

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unity of the subject. A novice can quickly see how and why the different parts fit together. The concepts build slowly and naturally one after another, until the reader soon has a view of the whole. Each concept is illustrated by detailed examples and graphics. The full software code for each example is

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available, providing the basis for experimenting with various assumptions, learning how to write programs for control analysis, and setting the stage for future research projects. The topics focus on robustness, design trade-offs, and optimality. Most of the book develops

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classical linear theory. The last part of the book considers robustness with respect to nonlinearity and explicitly nonlinear extensions, as well as advanced topics such as adaptive control and model predictive control. New students, as well as scientists from other backgrounds who want a

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concise and easy-to-grasp coverage of control theory, will benefit from the emphasis on concepts and broad understanding of the various approaches.

Written as a companion volume to the author's Solving Control Engineering Problems with MATLAB, this

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indispensable guide illustrates the power of MATLAB as a tool for synthesizing control systems, emphasizing pole placement, and optimal systems design.

Components and Systems

A Modern Approach

Modern Control Systems

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Next Generation Business Strategies for a Post-Crisis World

The Fourth Industrial Revolution

Published in association

with the Society for

Vascular Surgery (SVS), the

newly updated edition of

Rich's Vascular Trauma draws

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on civilian and military authorities from around the world to offer comprehensive and up-to-date coverage of the management of vascular injury. Anatomic patterns of vascular trauma including extremity, torso and

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cervical injury are reviewed in detail, including the latest techniques to manage non-compressible torso hemorrhage. You'll have access to all of the current innovations across the broad spectrum of vascular trauma,

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presented in a well-organized fashion that allows you to quickly hone-in on the most important issues in patient care and management. Emphasizes the current management of civilian vascular injuries

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with an historical reflection of pioneering contributions from the battlefield. Combines the largest existing database of military vascular trauma with the experience of one of the nation's premier

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civilian trauma centers. Examines operative techniques and "damage control" for vascular traumas. For the first time, includes a novel International Perspectives section featuring

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fascinating accounts of vascular trauma from nine leading surgeons from five continents. This section focuses on innovative surgical treatments tailored to locally developed pathways of care, training

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solutions, and regional injury patterns. End-to-end coverage of all phases of acute vascular injury care, including a new assessment of the implications of vascular trauma in the pre-hospital setting (i.e. point

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of injury and en-route care). Covers the emerging hot topics, including endovascular procedures to manage trauma, contemporary use of vascular shunts, and a modern reappraisal of resuscitative endovascular

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balloon occlusion of the aorta for shock. An innovative chapter on the systems approach and quality improvement in vascular trauma, offering information and tactics for all providers wishing to

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understand how clinical systems underpin patient outcome and recovery from this challenging injury pattern. A combined civilian and military authorship from internationally recognized authorities draws on the

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best available evidence, experience, and lessons-learned from Afghanistan, Iraq, and the "urban battlefield." Medicine eBook is accessible on a variety of devices.

Observers are digital

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algorithms that combine sensor outputs with knowledge of the system to provide results superior to traditional structures, which rely wholly on sensors. Observers have been used in selected industries

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for years, but most books explain them with complex mathematics. Observers in Control Systems uses intuitive discussion, software experiments, and supporting analysis to explain the advantages and

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disadvantages of observers. If you are working in controls and want to improve your control systems, observers could be the technology you need and this book will give you a clear, thorough explanation of how

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they work and how to use them. Control systems and devices have become the most essential part of nearly all mechanical systems, machines, devices and manufacturing systems throughout the world.

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Increasingly the efficiency of production, the reliability of output and increased energy savings are a direct result of the quality and deployment of the control system. A modern and essential tool within

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the engineer's kit is the Observer which helps improve the performance and reduce the cost of these systems. George Ellis is the author of the highly successful Control System Design Guide (Second Edition). Unlike

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most controls books, which are written by control theorists and academics, Ellis is a leading engineer, designer, author and lecturer working in industry directly with the users of industrial motion control

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systems. Observers in Control Systems is written for all professional engineers and is designed to be utilized without an in-depth background in control theory. This is a "real-world" book which will

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demonstrate how observers work and how they can improve your control system. It also shows how observers operate when conditions are not ideal and teaches the reader how to quickly tune an observer in a working

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system. Software Available online: A free updated and enhanced version of the author's popular Visual ModelQ allows the reader to practice the concepts with Visual ModelQ models on a PC. Based on a virtual

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laboratory, all key topics are demonstrated with more than twenty control system models. The models are written in Visual ModelQ ,and are available on the Internet to every reader with a PC. Teaches observers

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and Kalman filters from an intuitive perspective

Explains how to reduce control system susceptibility to noise

Shows how to design an adaptive controller based on estimating parameter

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variation using observers Shows how to improve a control system's ability to reject disturbances Key topics are demonstrated with PC-based models of control systems. The models are written in both MatLab® and

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ModelQ; models are available free of charge

For senior or graduate-level students taking a first course in Control Theory (in departments of Mechanical, Electrical, Aerospace, and Chemical Engineering). A

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comprehensive, senior-level textbook for control engineering. Ogata's Modern Control Engineering, 5/e , offers the comprehensive coverage of continuous-time control systems that all senior students must have,

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including frequency response approach, root-locus approach, and state-space approach to analysis and design of control systems. The text provides a gradual development of control theory, shows how to solve

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all computational problems with MATLAB, and avoids highly mathematical arguments. A wealth of examples and worked problems are featured throughout the text. The new edition includes improved coverage

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of Root-Locus Analysis (Chapter 6) and Frequency-Response Analysis (Chapter 8). The author has also updated and revised many of the worked examples and end-of-chapter problems. This text is ideal for control

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systems engineers.

Digital Control Engineering

Solutions Manual, Modern
Control Engineering, Fourth
Edition

Project Planning and Control
Traffic Engineering

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Between the 18th and 19th centuries, Britain experienced massive leaps in technological, scientific, and economical advancement

Notable author Katsuhiko Ogata presents the only new book available to discuss, in sufficient detail, the details

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of MATLAB® materials needed to solve many analysis and design problems associated with control systems. Complements a large number of examples with in-depth explanations, encouraging complete understanding of the MATLAB

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approach to solving problems. Distills the large volume of MATLAB information available to focus on those materials needed to study analysis and design problems of deterministic, continuous-time control systems. Covers conventional control systems

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such as transient response, root locus, frequency response analyses and designs; analysis and design problems associated with state space formulation of control systems; and useful MATLAB approaches to solve optimization problems. A useful self-

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study guide for practicing control engineers.

Addresses the important issues of documentation and testing. * A chapter on project management provides practical suggestions for organizing design teams, scheduling tasks,

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monitoring progress, and reporting status of design projects. * Explains both creative and linear thinking and relates the types of thinking to the productivity of the design engineers and novelty of the end design.

Control Theory Tutorial

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Feedback Systems

Nise's Control Systems Engineering
Basic Concepts Illustrated by Software
Examples

Matlab for Control Engineers

This unique book presents
comprehensive and in-depth coverage

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of traffic engineering. KEY TOPICS It discusses all modern topics in traffic engineering, including design, construction, operation, maintenance, and system. For anyone involved in traffic studies, engineering, analysis, and control and operations.

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In this book, Tewari emphasizes the physical principles and engineering applications of modern control system design. Instead of detailing the mathematical theory, MATLAB examples are used throughout.

The Second Edition of Control Systems

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Engineering provides a clear and thorough introduction to controls. Designed to motivate readers' understanding, the text emphasizes the practical application of systems engineering to the design and analysis of feedback systems. In a rich

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pedagogical style, Nise motivates readers by applying control systems theory and concepts to real-world problems. The text's updated content teaches readers to build control systems that can support today's advanced technology.

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Modern Ceramic Engineering
Properties, Processing and Use in
Design

Automatic Control Systems

System Dynamics

A Practical Guide

The essential introduction to

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the principles and applications of feedback systems—now fully revised and expanded This textbook covers the mathematics needed to model, analyze, and design feedback systems. Now more user-

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friendly than ever, this revised and expanded edition of Feedback Systems is a one-volume resource for students and researchers in mathematics and engineering. It has applications across a

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range of disciplines that utilize feedback in physical, biological, information, and economic systems. Karl Åström and Richard Murray use techniques from physics, computer science, and

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operations research to introduce control-oriented modeling. They begin with state space tools for analysis and design, including stability of solutions, Lyapunov functions, reachability, state

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feedback observability, and estimators. The matrix exponential plays a central role in the analysis of linear control systems, allowing a concise development of many of the key concepts for this class of

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models. Åström and Murray then develop and explain tools in the frequency domain, including transfer functions, Nyquist analysis, PID control, frequency domain design, and robustness. Features a new

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chapter on design principles and tools, illustrating the types of problems that can be solved using feedback Includes a new chapter on fundamental limits and new material on the Routh-Hurwitz criterion and root locus

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plots Provides exercises at the end of every chapter Comes with an electronic solutions manual An ideal textbook for undergraduate and graduate students Indispensable for researchers seeking a self-

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contained resource on control theory

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methods in system identification and optimal, digital, adaptive, robust, and fuzzy control, as well as stability, controllability, observability, pole placement, state observers, input-output

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decoupling, and model matching."

Primarily written as course material on flood control and drainage engineering for advanced students of civil engineering, this third edition

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is thoroughly revised. It accommodates recent developments in remote sensing, information technology and GIS technology. New additional material deals with problems of

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flood forecasting, flood plain prioritization and flood hazard zoning, and engineering measures for flood control. Drainage improvement is tackled, with particular regard to salinity and coastal aquifer

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management from the ingress of sea water. The book includes design problem-solving and case studies, making it practical and applications-oriented. The subject matter will be of considerable interest

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*to civil engineers, agricultural
engineers, architects and town
planners, as well as other
government and non-
government organizations
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Modern Control Design

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Digital Control System Analysis and Design

Observers in Control Systems

Today's era of economic crisis has sent a powerful

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message: The age of "mercenary" capitalism is ending. We must finally embark on a new age of sustainable, stakeholder-based capitalism. While enlightened executives and

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policymakers understand the critical need for change, few have tangible plans for making it happen. In Capitalism at the Crossroads: Next Generation Business

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Strategies for a Post-
Crisis World, Third
Edition, Stuart L. Hart
presents new strategies
for identifying
sustainable products,
technologies, and business

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models that will drive urgently needed growth and help solve social and environmental problems at the same time. Drawing on his experience consulting with top companies and

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NGOs worldwide, Hart shows how to craft your optimal sustainability strategy and overcome the limitations of traditional "greening" approaches. In this edition, he presents

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new and updated case studies from the United States and around the world, demonstrating what's working and what isn't. He also guides business leaders in

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building an organizational "infrastructure for sustainability"--one that can survive budgeting and boardrooms, recharging innovation and growth throughout your

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· How to fully embed your enterprise in the local context--and why you should · Tactics for making long-term sustainability work in a short-term world

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Principles of Bone Biology provides the most comprehensive, authoritative reference on the study of bone biology and related diseases. It is the essential resource

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for anyone involved in the study of bone biology. Bone research in recent years has generated enormous attention, mainly because of the broad public health implications

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from the basic elements of fundamental research to the most sophisticated concepts in therapeutics Readers can easily search and locate information quickly as it will be

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online with this new edition

The book covers the principles and tools of project management. All the 'hard' topics which may appear in the APMP

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examination are explained and worked through in practical examples. Real-life case studies show how the theory can be adapted to work 'in the field'. This approach means that

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techniques can be fully understood and appreciated. Useful summaries clarify the use of all the techniques used to manage a project. The advantages of using

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network analysis and earned value analysis when planning a project are explained. The latest project management systems that use critical path methods are described and

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a detailed examination of one widely used system illustrates the general characteristics of modern project planning software. Two well-known computer programs are described in

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detail. Albert Lester was a project manager with Tarmac Construction and Foster Wheeler Power Products managing large multi-discipline petrochemical and power

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generation projects. He has been a compiler and is an examiner for the APMP certificate and lectures on project management as well as assessing for APM many project management

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courses. * A comprehensive resource for project managers * Written by a well-known and authoritative author * A recommended resource for the Association of Project

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Engineering, 3rd Edition

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This 3rd edition provides chemical engineers with process control techniques that are used in practice while offering detailed mathematical analysis.

Numerous examples and

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simulations are used to illustrate key theoretical concepts. New exercises are integrated throughout several chapters to reinforce concepts.

Mechanical Vibration: Analysis, Uncertainties, and Control,

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Fourth Edition addresses the principles and application of vibration theory. Equations for modeling vibrating systems are explained, and MATLAB® is referenced as an analysis tool. The Fourth Edition adds more

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coverage of damping, new case studies, and development of the control aspects in vibration analysis. A MATLAB appendix has also been added to help students with computational analysis. This work includes

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example problems and explanatory figures, biographies of renowned contributors, and access to a website providing supplementary resources. For junior-level courses in System Dynamics, offered in

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Mechanical Engineering and Aerospace Engineering departments. This text presents students with the basic theory and practice of system dynamics. It introduces the modeling of dynamic systems

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

Mechanical Vibration Analysis, Uncertainties, and Control, Fourth Edition

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electronics text often used for the last course in two-year electrical engineering technology and electro-mechanical technology programs. Focuses on current technology (digital controls, use of microprocessors) while including analog concepts. Balances industrial

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electronics and non-calculus controls topics. Covers all major topics: solid state controls, electric motors, sensors, and programmable controllers. Includes physics concepts and coverage of fuzzy logic. How to Use the Allen-Bradley 5, the most commonly used PLC, has been

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included as a tutorial appendix. Both Customary and SI units are used in examples.