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Focuses on the first control systems course of BTEch, JNTU, this book helps the student prepare for further studies in modern control system design. It offers a profusion of examples on various aspects of study.

The Book Provides An Integrated Treatment Of Continuous-Time And Discrete-Time Systems For Two Courses At Undergraduate Level Or One Course At Postgraduate Level. The Stress Is On The Interdisciplinary Nature Of The Subject And Examples Have Been Drawn From Various Engineering Disciplines To Illustrate The Basic System Concepts. A Strong Emphasis Is Laid On Modeling Of Practical Systems Involving Hardware, Control Components Of A Wide Variety Are Comprehensively Covered. Time And Frequency Domain Techniques Of Analysis And Design Of Control Systems Have Been Exhaustively Treated And Their Interrelationship Established Adequate Breadth And Depth Is Made Available For A Second Course. The Coverage Includes Digital Control Systems; Analysis, Stability And Classical Design; State Variables For Both Continuous-Time And Discrete-Time Systems; Observers And Pole-Placement Design; Liapunov Stability; Optimal Control; And Recent Advances In Control Systems: Adaptive Control, Fuzzy Logic Control, Neural Network Control.Salient Features \* State Variables Concept Introduced Early In Chapter 2 \* Examples And Problems Around Obsolete Technology Updated. New Examples Added \* Robotics Modeling And Control Included \* Pid Tuning Procedure Well Explained And Illustrated \* Robust Control Introduced In A Simple And Easily Understood Style \* State Variable Formulation And Design Simplified And Generalizations Built On Examples \* Digital Control, Both Classical And Modern Approaches, Covered In Depth \* A Chapter On Adaptive, Fuzzy Logic And Neural Network Control, Amenable To Undergraduate Level Use, Included \* An Appendix On Matlab With Examples From Time And Frequency Domain Analysis And Design, Included

**Key Features:**Examples have been provided to maintain the balance between different disciplines of engineering. Robust control, Robotic control and Robotic modeling introduced. PID learning procedures illustrated. Updation of obsolete technology with examples. State variable formulation and design simplified. Digital control, both classical and modern approaches, covered in depth. Chapters on Nonlinear Systems, Adaptive, Fuzzy Logic and Neural Network Control included. An appendix in MATLAB with examples from time and frequency domain analysis and design included.About the Book:The book provides an integrated treatment of continuous and discrete-time systems for two courses at undergraduate level or one course at postgraduate level. The stress is on the interdisciplinary nature of subject and examples have been drawn from various engineering disciplines to illustrate the basic system concepts. A strong emphasis is laid on modeling of practical systems involving hardware: control components of a wide variety are comprehensively covered. Time and frequency domain techniques of analysis and design of control systems have been exhaustively treated and their interrelationship established.Adequate breadth and depth is made available for second course. The coverage includes digital control systems: analysis, stability and classical design; state variables for both continuous and discrete-time systems; observers and pole-placement design; Liapunov stability, optimal control; and recent advances in control systems: adaptive control, fuzzy logic control, neural network control.

**Features** The book provides a compressive overview of the fundamental skills underlying the mechanism and control of manipulators. Detailed chapter on Velocity Transformations, jacobian and Singularities. Trajectory Planning is developed using both joint space and Cartesian space methods. Dynamic Modeling is treated by Lagrange-Euler and Euler-Newton formulations; complex derivations are put in the appendix to ensure a smooth flow for the reader. A comprehensive chapter on Robotic Control covering control strategies like PD, PID, computed torque control, force and impedance control at an appropriate level. A METLAB tutorial on using the package for Robotics is included as an appendix. A full chapter on the industrial applications of robots. All important industrial robot configurations with varying degrees of freedom are covered in various chapters and solved examples. An elaborate chapter (Chapter 9) devoted to Robotic Sensors and Vision. Includes over 50 solved examples and more than 270 simple-to-complex end-of-chapter exercises. Appendix on the underlying maths – Linear Algebra, Moment of Inertia Tensor and Equations of Motion

This hallmark text on Power System Engineering provides the readers a comprehensive account of all key concepts in the field. The book includes latest technology developments and talks about some crucial areas of Power system, such as Transmission & Distribution, Analysis & Stability, and Protection & Switchgear. With its rich content, it caters to the requirements of students, instructors, and professionals.

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.