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Focuses on the first control systems course of BTech, JNTU, this  $\frac{Page}{P}$  6/8

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

The objective of this book is to provide a collection of solved problems on control systems, with an emphasis on practical problems. System functionality is described, the modeling process is explained, the problem solution is introduced, and the derived results are discussed. Each chapter ends with a discussion on applying MATLAB®, LabVIEW, and/or Comprehensive Control to the previously introduced concepts. The aim of the book is to help an average reader understand the concepts of control systems through problems and applications. The solutions are based directly on math formulas given in extensive tables throughout the text.

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