



Automatic Control Systems (Ninth Edition)

By Benjamin C. Kuo, Farid Golnaraghi

Wiley India Pvt. Ltd, 2014. Softcover. Book Condition: New. 5th or later edition. Automatic Control Systems provides engineers with a fresh new controls book that places special emphasis on mechatronics. It follows a revolutionary approach by actually including a physical lab. In addition, readers will find authoritative coverage of modern design tools and examples. Current mechatronics applications build motivation to learn the material. Extensive use of virtual lab software is also integrated throughout the chapters. Engineer gains a strong understanding the control systems with the help of modern examples and exercises. Preface. Chapter 1: Introduction. 1.1 Introduction. 1.2 What Is Feedback and What Are Its Effects? 1.3 Types of Feedback Control Systems. 1.4 Summary. Chapter 2: Mathematical Foundation. 2.1 Complex-Variable Concept. 2.2 Frequency-Domain Plots. 2.3 Introduction to Differential Equations. 2.4 Laplace Transform. 2.5 Inverse Laplace Transform by Partial-Fraction Expansion. 2.6 Application of the Laplace Transform to the Solution of Linear Ordinary Differential Equations. 2.7 Impulse Response and Transfer Functions of Linear Systems. 2.8 Stability of Linear Control Systems. 2.9 Bounded-Input, Bounded-Output. 2.10 Relationship between Characteristic Equation Roots and Stability. 2.11 Zero-Input and Asymptotic Stability of Continuous-Data Systems. 2.12 Methods of Determining Stability. 2.13. Routh-Hurwitz Criterion. 2.14 MATLAB Tools and Case Studies....



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