

Automatic Control Systems (Ninth Edition)

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Reviews

Here is the best publication i have got go through until now. It is actually writter in simple phrases and never hard to understand. I realized this publication from my dad and i suggested this ebook to find out.

(Lorena White)

AUTOMATIC CONTROL SYSTEMS (NINTH EDITION)

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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. 2.15 Summary. Chapter 3: Block Diagrams and Signal-Flow Graphs. 3.1 Block Diagrams. 3.2 Signal-Flow Graphs (SFGs). 3.3 MATLAB Tools and Case Studies. 3.4 Summary. Chapter 4: Theoretical Foundation and Background Material: Modeling of Dynamic Systems. 4.1 Introduction to Modeling of Mechanical Systems. 4.2 Introduction to Modeling of Simple Electrical Systems. 4.3 Modeling of Active Electrical Elements: Operational Amplifiers. 4.4 Introduction of Modeling of Thermal Systems. 4.5 Introduction of Modeling of Fluid Systems. 4.6 Sensors and Encoders in Control Systems. 4.7 DC Motors in Control Systems. 4.8 Systems with Transportation Lags. 4.9 Linearization of Nonlinear Systems. 4.10 Analogies. 4.11 Case Studies....

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