

## automatic control theory experiment technology



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paperback. Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment. Pages Number: 241 Publisher: Harbin Engineering University Press Pub. Date: 2006 -12 this book based on the students in control systems analysis and design methods. First, from the end of each chapter introduces the basic principles of engineering practice point of view, and then introduce the corresponding experiment. The book is divided into nine chapters, a more comprehensive introduction to the classic control system theory, digital control, linear systems theory experimental techniques. In particular, Chapter 9, in order to enable students to learn the actual control system analysis and design methods, introduce a variety of typical control system integrated design experiments. The book includes: Chapter 1 describes the general concept of automatic control systems, focusing on open-loop, closed loop control system; Chapter 2 discusses the control system mathematical model, transform and simplify, focus on experimental modeling; Chapter 3 control system introduced time domain analysis, focusing on motion characteristics of the system parameters and system structure of the relationship; Chapter 4 describes the system root locus analysis and design methods; Chapter 5 describes the system frequency response analysis and design methods; Chapter 6 describes the nonlinear system analysis; Chapter 7 describes the digital control system analysis and design methods; Chapter 8 describes the control system integrated design approach; Chapter 9 Integrated design experiment. Contents: 1. Introduction 1.1 The two basic forms of control system control system requirements 1.2 pairs of automatic control theory 1.3 1.4 experimental study of the issue of DC motor speed control system demonstration experiment 2. the linear mathematical model of the system mathematical model of the classic 2.1 system 2.2 Linear systems typically part of the mathematical model of the system state-space model 2.3 2.4 According to...

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