



Feedback Control Systems (5th Edition)

By Charles L. Phillips, John Parr

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Feedback Control Systems, 5/e

This text offers a thorough analysis of the principles of classical and modern feedback control. Organizing topic coverage into three sections—linear analog control systems, linear digital control systems, and nonlinear analog control systems—helps students understand the difference between mathematical models and the physical systems that the models represent.

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Editorial Review

Review

"This book presents mathematically oriented classical control theory in a concise manner such that undergraduate students are not overwhelmed by the complexity of the materials. In each chapter, it is organized such that the more advanced material is placed toward the end of the chapter." — Jongeun Choi, Michigan State University

"This book is self-contained and ideal for teaching the classical control theory for junior- and senior-level undergraduate students." — Jongeun Choi, Michigan State University

"For those who are considering a career as a control systems engineer, I think this text is a great introduction to classical control system design." — John Schmitt, Oregon State University

"[The greatest strengths of this text are] The mathematical foundation provided for all of the concepts introduced. Almost all concepts presented in the text are supported by a mathematical derivation." — John Schmitt, Oregon State University

"I feel the text is very comprehensive and the updates with MATLAB are very good." — Satish S. Nair, University of Missouri

From the Publisher

Revised and edited for optimum clarity, this reputable text offers a thorough analysis of the principles of classical and modern feedback control. Organizing topic coverage into three sections--linear analog control systems, linear digital control systems, and nonlinear analog control systems--it strives to help students understand the difference between mathematical models and the physical systems that the models represent.

From the Back Cover

This book offers a thorough analysis of the principles of classical and modern feedback control. Organizing topic coverage into three sections—linear analog control systems, linear digital control systems, and nonlinear analog control systems—helps the reader understand the difference between mathematical models and the physical systems that the models represent.

FEATURES/BENEFITS

- NEW—**SIMULINK simulation program**—Illustrates feedback effects.
 - Helps demonstrate design examples and problems.
- NEW—**MATLAB's symbolic math** is employed to verify transforms and to solve differential equations directly.
- NEW—**Computer verification of results.**
 - Exposes users to a short MATLAB program when working almost all examples and problems.
- NEW—**Design procedures implemented in MATLAB m-files.**
- NEW—**Improved practical application examples.**

- Allows the reader to better relate the mathematical developments to physical systems.
- **Chapter-end problems.**
 - Most chapter-end problems lead the reader through a second method of the solution, so that they can verify results.
- **Transfer-function and state-variable models.**
 - Familiarizes users with both models for the analysis and design of linear analog systems.
- **System stability discussion**—Along with the Routh-Hurwitz stability criterion.
- **Coverage of nonlinear system analysis methods.**
 - Emphasizes describing-function analysis, linearization, and the state-plane analysis.
- **Early coverage of expanded frequency-response design criteria.**
 - Helps explain closed-loop systems.
- **Digital Control Systems.**
 - Provides the reader with the basic principles of digital control.
- **Time-scaling differential equations section.**
- **Maximum text/course flexibility**—Places more advanced material toward the end of each chapter. Topics can be easily omitted, enabling instructors to tailor the book to meet their needs.

Users Review

From reader reviews:

Martha Skaggs:

What do you regarding book? It is not important along with you? Or just adding material when you need something to explain what the ones you have problem? How about your time? Or are you busy individual? If you don't have spare time to accomplish others business, it is gives you the sense of being bored faster. And you have time? What did you do? Every individual has many questions above. They have to answer that question simply because just their can do that. It said that about publication. Book is familiar on every person. Yes, it is correct. Because start from on jardín de infancia until university need that Feedback Control Systems (5th Edition) to read.

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