



# Design of Feedback Control Systems (Oxford Series in Electrical and Computer Engineering)

By Raymond T. Stefani, Bahram Shahian, Clement J. Savant, Gene H. Hostetter

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**Design of Feedback Control Systems (Oxford Series in Electrical and Computer Engineering)** By Raymond T. Stefani, Bahram Shahian, Clement J. Savant, Gene H. Hostetter

*Design of Feedback Control Systems* is designed for electrical and mechanical engineering students in advanced undergraduate control systems courses. Now in its fourth edition, this tutorial-style textbook has been completely updated to include the use of modern analytical software, especially MATLAB®. It thoroughly discusses classical control theory and state variable control theory, as well as advanced and digital control topics. Each topic is preceded by analytical considerations that provide a well-organized parallel treatment of analysis and design. Design is presented in separate chapters devoted to root locus, frequency domain, and state space viewpoints. Treating the use of computers as a means rather than as an end, this student-friendly book contains new "Computer-Aided Learning" sections that demonstrate how MATLAB® can be used to verify all figures and tables in the text. Clear and accessible, *Design of Feedback Control Systems, Fourth Edition*, makes complicated methodology comprehensible to a wide spectrum of students.

## Features

- Keyed to today's dominant design tool, MATLAB®
- Includes drill problems for gauging knowledge and skills after each topic
- Provides state-of-the-art design examples
- Uses marginal summaries to guide the reader
- Introduces new ideas in the context of previous material, with a guide to the information that follows
- Presents practical examples of the latest advances in control sciences

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## **Editorial Review**

### Review

"An excellent text book that explains the basic concepts to the beginner in a very lucid way, yet goes on to cover many advanced topics in sufficient detail."--Ajeet Singh, DeVry Technical Institute

### About the Author

Raymond T. Stefani, Bahram Shahian, and Gene Hostetter are all at California State University, Long Beach.

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