



# CONTROL SYSTEMS ENGINEERING 5E

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## KEY SELLING POINTS

- ◆ 5<sup>th</sup> Edition of a successful textbook
- ◆ Multi-disciplinary
- ◆ Top level authors
- ◆ 2 colour

## BOOK INFORMATION

Price: £47.50

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Extent: 900 pages

This book provides an integrated treatment of continuous-time and discrete-time systems. It emphasises the interdisciplinary nature of the subject and examples have been drawn from various engineering disciplines to illustrate the basic system concepts.

In particular, the book deals with the modelling of practical systems involving various hardware. Time and frequency domain techniques of the analysis and design of control systems have been discussed at length.

Consisting of 16 chapters, this new edition has been improved by the addition of numerous real-world examples, and by the inclusion of PID controller design, a comparison table of long/lead compensators, industrial OPAMP compensating networks and a design example using root-locus technique.

“Control Systems Engineering 5e” is an outstanding textbook which can be used at advanced undergraduate or post graduate level on diverse courses within the broad scope of engineering and will be a valued addition to any engineering library.

## Contents:

**1. Introduction 2. Mathematical Models of Physical Systems 3. Feedback Characteristics of Control Systems 4. Control Systems and Components 5. Time Response Analysis, Design Specifications and Performance Indices 6. Concepts of Stability and Algebraic Criteria 7. The Root Locus Technique 8. Frequency Response Analysis 9. Stability in Frequency Domain 10. Introduction to Design 11. Digital Control Systems 12. State Variable Analysis and Design 13. Liapunov’s Stability Analysis 14. Optimal Control Systems 15. Nonlinear Systems 16. Advances in Control Systems Appendices**