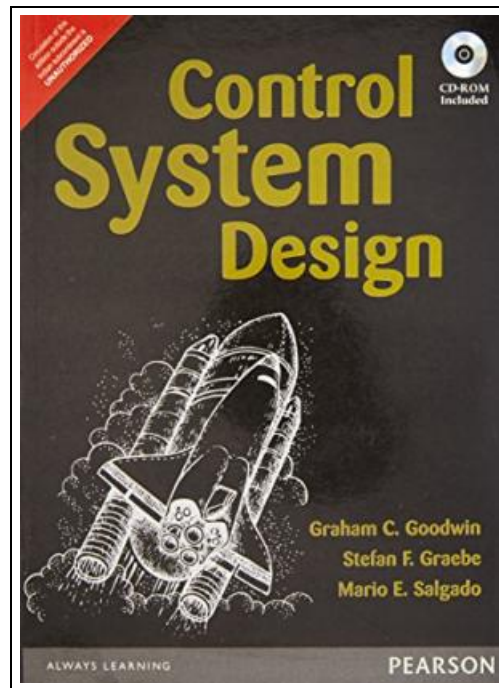# Control System Design

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CONTROL SYSTEM DESIGN

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Pearson Education, 2015. Softcover. Condition: New. First edition. Using a `how to do it` approach with a strong emphasis on real-world design, this text provides comprehensive, single-source coverage of the full spectrum of control system design. Each of the text`s 8 parts covers an area in control -ranging from signals and systems (Bode Diagrams, Root Locus, etc.), to SISO control (including PID and Fundamental Design Trade-Offs) and MIMO systems (including Constraints, MPC, Decoupling, etc.) Features - Single-source coverage of the full spectrum of control From simple classical ideas to sophisticated multivariable problems. A major emphasis on design issues not found in other books on the topic such as digital and hybrid control systems, PID control including classical tuning methods, integration of state space and transfer function approaches, including Kalman filter and linear quadratic regulator. Practical issues of real-world control system design are emphasized - The text covers the traditional topics, but goes well beyond introductory topics to consider implementations of PID control, Smith predictors, fundamental limitations in design arising from delays, right half plan zeros and right half plane poles, impact of actuator limitations (Slew rate and amplitude constraints). Table of Contents I. The Elements 1. The Excitement of Control Engineering 2. Introduction to the Principles of Feedback 3. Modeling 4. Continuous-Time Signals and Systems. II. SISO Control Essentials 5. Analysis of SISO Control Loops 6. Classical PID Control 7. Synthesis of SISO Controllers III. SISO Control Design 8. Fundamental Limitations in SISO Control 9. Frequency-Domain Design Limitations 10. Architectural Issues in SISO Control 11. Dealing with Constraints IV. Digital Computer Control 12. Models for Sampled-Data Systems 13. Digital Control 14. Hybrid Control V. Advanced SISO Control 15. SISO Controller Parameterizations 16. Control Design Based on Optimization 17. Linear State Space Models 18. Synthesis via State Space Methods 19. Introduction...

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