Practical Control Engineering: Guide for Engineers, Managers, and Practitioners (MATLAB Examples)

David Koenig

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An Essential Guide to Control Engineering Fundamentals

Understand the day-to-day procedures of today's control engineer with the pragmatic insights and techniques contained in this unique resource. Written in clear, concise language, *Practical Control Engineering* shows, step-by-step, how engineers simulate real-world phenomena using dynamic models and algorithms. Learn how to handle single and multiple-staged systems, implement error-free feedback control, eliminate anomalies, and work in the frequency and discrete-time domains. Extensive appendices cover basic calculus, differential equations, vector math, Laplace and Z-transforms, and Matlab basics. *Practical Control Engineering* explains how to:

- Gain insight into control engineering and process analysis
- Write and debug algorithms that simulate physical processes
- Understand feedback, feedforward, open loops, and cascade controls
- Build behavioral models using basic applied mathematics
- Analyze lumped, underdamped, and distributed processes
- Comprehend matrix, vector, and state estimation concepts
- Convert from continuous to discrete-time and frequency domains
- Filter out white noise, colored noise, and stochaic disturbances

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