



Process Dynamics and Control

Dale E. Seborg

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This textbook has been organized so that the instructor can cover the basic material while having the flexibility to pursue selected topics in the process control field. The book provides the basics for 20 to 30 weeks of instruction, covering a single course or a sequence of courses at the undergraduate or first-year graduate levels. The text is divided into reasonably short chapters to make the book more readable and to enhance its use in a modular fashion. This organization allows the student to skip some chapters without a loss of continuity.

- introduction to process control
- theoretical models of chemical processes
- laplace transforms
- transfer function and state-space models
- dynamic behavior of first-order and second-order processes
- dynamic response characteristics of more complicated processes
- development of empirical models from process data
- feedback controllers
- control system instrumentation
- overview of control system design
- dynamic behavior and stability of closed-loop control systems
- pid controller design, tuning, and troubleshooting
- frequency response analysis
- control system design based on frequency response analysis
- feedforward and ratio control
- enhanced single-loop control strategies
- digital sampling, filtering, and control
- multiloop and multivariable control
- real-time optimization
- model predictive control
- process monitoring
- batch process control
- introduction to plantwide control
- plantwide control system design

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