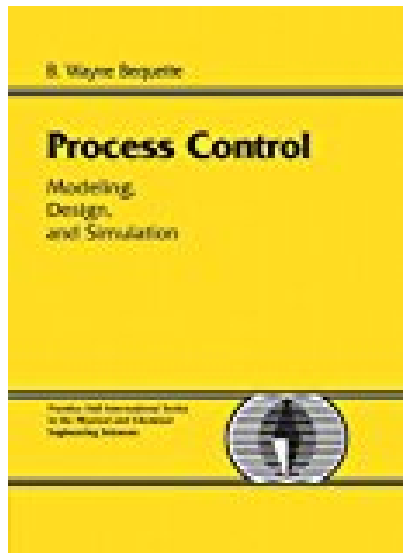


Process Control Modeling Design and Simulation



BOOK DETAILS

- Author : B. Wayne Bequette
- Pages : 800 Pages
- Publisher : Prentice Hall
- Language : English
- ISBN : 0133536408

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BOOK SYNOPSIS

Master process control hands on, through practical examples and MATLABreg; simulations This is the first complete introduction to process control that fully integrates software tools-enabling professionals and students to master critical techniques hands on, through computer simulations based on the popular MATLAB environment. Process Control: Modeling, Design, and Simulation teaches the fields most important techniques, behaviors, and control problems through practical examples, supplemented by extensive exercises-with detailed derivations, relevant software files, and additional techniques available on a companion Web site. Coverage includes: bull; Fundamentals of process control and instrumentation, including objectives, variables, and block diagrams Methodologies for developing dynamic models of chemical processes Dynamic behavior of linear systems: state space models, transfer function-based models, and more Feedback control; proportional, integral, and derivative (PID) controllers; and closed-loop stability analysis Frequency response analysis techniques for evaluating the robustness of control systems Improving control loop performance: internal model control (IMC), automatic tuning, gain scheduling, and enhancements to improve disturbance rejection Split-range, selective, and override strategies for switching among inputs or outputs Control loop interactions and multivariable controllers An introduction to model predictive control (MPC) Bequette walks step by step through the development of control instrumentation diagrams for an entire chemical process, reviewing common control strategies for individual unit operations, then discussing strategies for integrated systems. The book also includes 16 learning modules demonstrating how to use MATLAB and SIMULINK to solve several key control problems, ranging from robustness analyses to biochemical reactors, biomedical problems to multivariable control.

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