

Process Dynamics And Control Solution Donald Coughanowr

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This third edition provides chemical engineers with process control techniques that are used in practice while offering detailed mathematical analysis. Numerous examples and simulations are used to illustrate key theoretical concepts. New exercises are integrated throughout several chapters to reinforce concepts. Up-to-date information is also included on real-time optimization and model predictive control to highlight the significant impact these techniques have on industrial practice. And chemical engineers will find two new chapters on biosystems control to gain the latest perspective in the field.

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This chemical engineering text provides a balanced treatment of the central issues in process control: process modelling, process dynamics, control systems, and process instrumentation. There is also full coverage of classical control system design methods, advanced control strategies, and digital control techniques. Includes numerous examples and exercises.

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Process Control: Modeling, Design, and Simulation is the first complete introduction to process control that fully integrates software tools-helping you master critical techniques hands-on, using MATLAB-based computer simulations. Author B. Wayne Bequette includes process control diagrams, dynamic modeling, feedback control, frequency response analysis techniques, control loop tuning, and start-to-finish chemical process control case studies.

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The Instructor's Manual contains worked out solutions to 230 of the 256 problems in Ogunnaik and Ray, Process Dynamics, Modeling, and Control (published November 1994). It is to be distributed gratis to adopters of the text and to qualified professors who are seriously considering adopting the text and have requested it.