



Process Control: Designing Processes and Control Systems for Dynamic Performance

By Thomas Marlin

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This is a revision of a well received new book for what is a required course in Chemical Engineering. The author uniquely emphasizes practices in industry so that students learn what aspects of plant design & control are critical. This book identifies process as the central factor in plant automation and develops theory and practice to present the parameters of good dynamic performance.

Approaches are presented for measurement selection, process/modification, control structure design and algorithm tuning to achieve good performance over a range of operating conditions. The sequence of topics (modeling, single-loop control and tuning, enhancements, multiloop control, and design) builds the students' ability to analyze increasingly complex systems, culminating in multiloop control design.

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