



Plantwide Dynamic Simulators in Chemical Processing and Control (Chemical Industries)

By William Luyben

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Presenting efficient and effective methods for developing dynamic simulations of chemical processes, this reference illustrates the techniques and fundamentals to develop, design, and test plantwide regulatory control schemes with commercial dynamic simulation packages. It provides case studies analyzing a wide variety of systems—ranging from simple units to complex interacting unit operations. The book offers strategies to move from steady-state simulations to dynamic simulations, install and tune controllers, size control valves and equipment, and add strip-chart recorders to simulations. It also provides access to website downloads of applications in HYSYS and AspenDynamics.

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Review

The book... contains a large number of figures representing models of plantwides, flowsheets with controllers, responses of the systems, important parameter profiles and also tables with stream data. ... The volume [ends] with some very useful considerations concerning software

- Iasi Polytechnic Magazine

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