

Third Edition of Process Dynamics and Control Recently Published

John Wiley & Sons has recently published the *Third Edition of Process Dynamics and Control* by Dale E. Seborg, Thomas F. Edgar, Duncan A. Mellichamp, and Francis J. Doyle III. The third edition is a major revision of the 2004 Second Edition, and includes a new coauthor, Professor Francis J. Doyle III of UC-Santa Barbara.

Process control has increased in importance over the past 30 years, driven by global competition, rapidly changing economic conditions, more stringent environmental and safety regulations, and the need for more flexible yet more complex processes to manufacture high value-added products. In order to accommodate these important trends, the *Third Edition* is divided into reasonably short chapters to make the book more readable and to enhance its use in a modular fashion. This organization gives the instructor the flexibility to cover just the topics that correspond to their syllabus without a loss of continuity.

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New and expanded features in the Third Edition include:

- Two new chapters on the dynamics and control of biological systems
- New chapters on process safety and control applications at the process unit level
- Up-to-date information on real-time optimization, model predictive control, and process monitoring to highlight the significant impact these techniques now have on industrial practice.
- Numerous examples and simulations based on MATLAB® and LabVIEW® software packages, as well as a series of Process Control Modules based on distillation column and furnace simulations. A YouTube video describes the use of LabVIEW simulation examples in the book; see <http://www.youtube.com/watch?v=mnO9pHXdzTE>.
- New exercises to reinforce concepts and an updated solution manual.
- Power point slides available for instructors to modify and use.

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