



Introduction to Process Control (Chemical Industries)

By Jose A. Romagnoli, Ahmet Palazoglu

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Improvements in software, instrumentation, and feedback control as well as deepening linkages between fundamental aspects of process technology have vastly changed the practice of industrial process control. Newcomers to the field must have a strong understanding of the new demands and capabilities of modern process control operations. Reflecting these changes, Introduction to Process Control infuses traditional topics with industry-based practices that provide more integrated process operation, control, and information systems.

The authors adopt a thoughtfully conceived approach that follows a "Continuing Problem" throughout the text, adding new concepts and strategies to the example, which culminates in a complete control design strategy. This fully realized system is implemented in MATLAB®, with software downloads available from the CRC Web site. This approach not only provides seamless continuity, but also addresses the plantwide control problem and engenders hands-on, step-by-step understanding of how the concepts apply to real processes. The book introduces data processing and reconciliation along with process monitoring as integral components of overall control system architecture.

Along with an introduction to modern architectures of industrial computer control systems, Introduction to Process Control offers unique and unparalleled coverage of the expanded role of process control in modern industry, from modeling the process to implementing a plant-wide system.

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