



**Principles  
and  
Practice  
of  
Automatic  
Process  
Control**

**Third Edition**

**Carlos A. Smith  
Armando Corripio**

# Principles And Practice Of Automatic Process Control

**Liyong Dong**



## **Principles And Practice Of Automatic Process Control:**

Principles and Practices of Automatic Process Control Carlos A. Smith, Armando B. Corripio, 2005-08-05 Highly practical and applied this Third Edition of Smith and Corripio's *Principles and Practice of Automatic Process Control* continues to present all the necessary theory for the successful practice of automatic process control. The authors discuss both introductory and advanced control strategies and show how to apply those strategies in industrial examples drawn from their own professional practice. The strengths of the book are its simplicity, excellent examples, practical approach, real case studies, and focus on Chemical Engineering processes. More than any other textbook in the field, Smith and Corripio prepares a student for use of process control in a manufacturing setting. Course Hierarchy: Course is called Process Control Senior level course. Same course as Seborg but Smith is considered more accessible.

Principles and Practice of Automatic Process Control Richard G. Smith, 1986-01-03 *Automated Continuous Process Control* Carlos A. Smith, 2002-03-05 *Automated Continuous Process Control* pulls together in one compact and practical volume the essentials for understanding, designing, and operating process control systems. This comprehensive guide covers the major elements of process control in a well-defined and ordered framework. Concepts are clearly presented with minimal reliance on mathematical equations and strong emphasis on practical, real-life examples. Beginning with the very basics of process control, *Automated Continuous Process Control* builds upon each chapter to help the reader understand and efficiently practice industrial process control. This complete presentation includes a discussion of processes from a physical point of view, feedback controllers and the workhorse in the industry, the PID controller, the concept and implementation of cascade control, ratio override or constraint, and selective control, block diagrams, and stability. Feedforward control techniques to control processes with long dead times, multivariable process control, applicable for electrical, industrial, chemical, or mechanical engineers. *Automated Continuous Process Control* offers proven process control guidance that can actually be used in day-to-day operations. The reader will also benefit from the companion CD-ROM which contains processes that have been successfully used for many years to practice tuning feedback and cascade controllers, as well as designing feedforward controllers.

**Principles and Practice of Automatic Process Control** Carlos A. Smith, Armando B. Corripio, 1985-05-28 Presents the practice of automatic process control along with the fundamental principles of control theory. Includes a generous number of case studies, problems, and examples taken from the authors' experience in industry. Directed to the process industries, discussing process dynamic response in terms of principles of material and energy balances, fluid flow, heat transfer, separation processes, and reaction kinetics. Shows how to develop simple process models and describes control systems, components, and feedback.

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