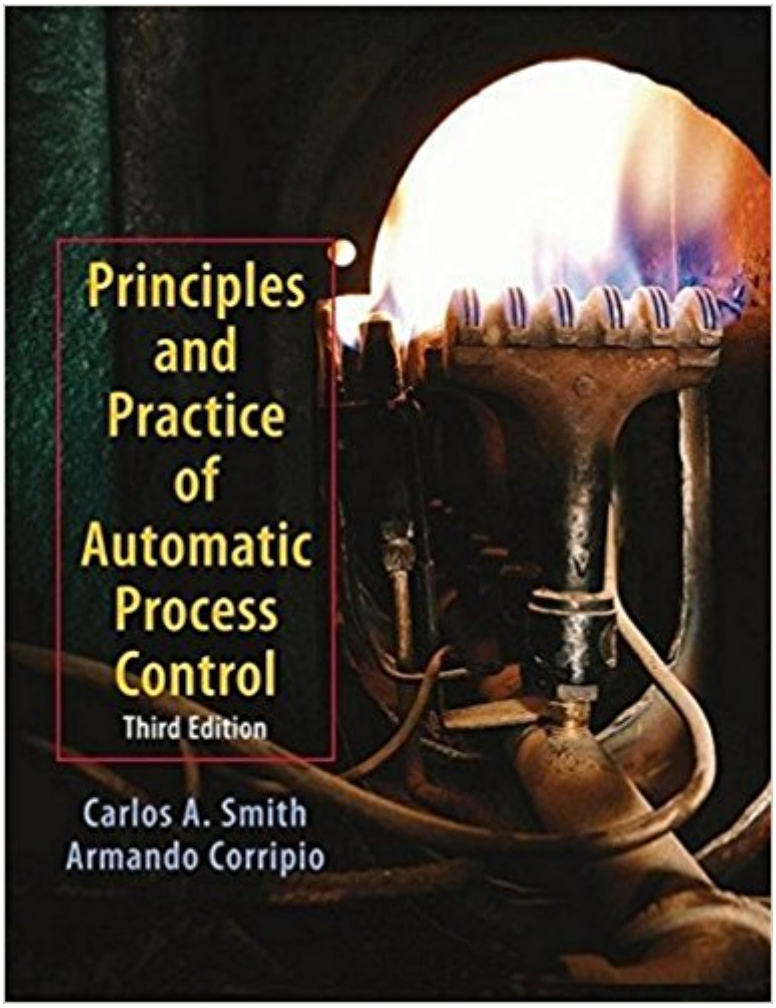
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Principles And Practices Of Automatic Process Control



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Synopsis

A practical guide for understanding and implementing industrial control strategies. 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. Now revised, this Third Edition features: * Expanded coverage of the development of dynamic balances (Chapter 3) * A new chapter on modeling and simulation (Chapter 13) * More extensive discussion of distributive control systems * New tuning exercises (Appendix D) * Guidelines for plant-wide control and two new design case studies (Appendix B) * New operating case studies (Appendix E) * Book Website containing simulations to practice the tuning of feedback controllers, cascade controllers, and feedforward controllers, and the MATLAB(r) files for simulation examples and problem With this text, you can: * Learn the mathematical tools used in the analysis and design of process control systems. * Gain a complete understanding of the steady state behavior of processes. * Develop dynamic mathematical process models that will help you in the analysis, design, and operation of control systems. * Understand how the basic components of control systems work. * Design and tune feedback controllers. * Apply a variety of techniques that enhance feedback control, including cascade control, ratio control, override control, selective control, feedforward control, multivariable control, and loop interaction. * Master the fundamentals of dynamic simulation of process control systems using MATLAB.

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Customer Reviews

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CARLOS A. SMITH is Professor of Chemical Engineering and Associate Dean of Academics in the College of Engineering, University of South Florida, Tampa. He not only teaches students but also teaches numerous short courses on process control to professionals. He is the coauthor of the bestselling textbook Principles of Automatic Process Control (Wiley).

Very good intermingling of the industrial practices and the theory of the Automation Control. This is very good for those who have good practical background in the process industries and aiming for professional in Automation and Control or to those with who are aiming at applying the theory of Control to the real life industry plants.

Book was in excellent shape as advertised

worst text book I ever had

This book really delivers what it promises: A practical guide for understanding and implementing industrial control strategies, with many examples derived from the authors experienced.I am an Industrial Practitioner of Process Control. I have been working for more than 16 years as an Instrumentation, Automation, and Process Safety and Control Engineer for the Oil & Gas Industry.The book is written in a very clear and readable way. I am not a Chemical Engineer (I am an Electronics Engineering Grad) but my work requires me to deal with chemical engineering issues relates to process control in a day to day basics. This book has been an excellent reference in my job, and is always available in my desk. If a non-chemical engineer can benefit from this book, I can bet that any chemical engineering student or industrial practitioner dealing with automatic process control will find this text most useful.If you are looking for an excellent book, highly practical and applied, this is the one you should get.

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