

1. Record Nr.	UNINA9910807354103321
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Titolo	Process identification and PID control // Su Whan Sung
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, 2009
ISBN	9786612382147 9781282382145 1282382144 9780470824122 0470824123 9780470824115 0470824115
Edizione	[1st edition]
Descrizione fisica	1 online resource (425 p.)
Disciplina	629.8 629.83
Soggetti	Feedback control systems PID controllers
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
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Sommario/riassunto

Process Identification and PID Control enables students and engineers
 to understand the essential concepts of feedback control, process
 identification, autotuning, and design of real feedback controllers,
 especially PID controllers. Sung, Lee, and Lee introduce the
 fundamentals of process control and dynamics, analysis tools (Bode
 plot, Nyquist plot), PID controllers and tuning, controller designs, along
 with the advances control strategies which have been widely used in
 industry. Included are numerous numerical examples and MATLAB
 codes to aid the reader in solving real problems. Readers will be able to
 design their own controllers, implement them, and confirm
 performance in real-time using real-time virtual processes. Combines

the basics with recent research, helping the novice grasp advanced topics Brings several industrially important topics together: . Finishing topics with implementation codes. Process identification and implementation. PID controller tuning and implementation. Enhanced control strategies and implementation Includes all source codes and real-time virtual processes for self-practice and modeling/controller design courses Contains problems at the end of every chapter Written by a team of recognized experts in the area Process Identification and PID Control is ideal for undergraduate and graduate students in process control, advanced process control, and process identification. Practicing control engineers and R&D personnel in refineries and chemical plants will find this book to be a key reference. Professionals in industry in particular will appreciate the techniques for developing process identification and control software, as well as implementing microprocessor controllers. Source code for readers and course supplements for instructors available at www.wiley.com/go/swsung.
