

1. Record Nr.	UNINA9910877676203321
Autore	Smith Cecil L
Titolo	Advanced process control : beyond single loop control // Cecil L. Smith
Pubbl/distr/stampa	Hoboken, N.J., : Wiley, c2010
ISBN	1-118-03521-6 1-282-75594-3 9786612755941 0-470-61290-8 0-470-61288-6
Descrizione fisica	1 online resource (464 p.)
Disciplina	660/.2815
Soggetti	Chemical process control Chemical engineering
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.
Nota di contenuto	ADVANCED PROCESS CONTROL; CONTENTS; Preface; 1 Introduction; 2 Cascade Control; 3 Split-Range Control; 4 Override Control; 5 Valve Position Control; 6 Ratio and Feedforward Control; 7 Loop Interaction; 8 Multivariable Control; Index
Sommario/riassunto	This book fills the gap between basic control configurations (Practical Process Control) and model predictive control (MPC). For those loops whose performance has a direct impact on plant economics or product quality, going beyond simple feedback or cascade can improve control performance, or specifically, reduce the variance about the target. However, the effort required to implement such control technology must be offset by increased economic returns from production operations. The economic aspects of the application of the various advanced control technologies are stressed throughout the bo