

1. Record Nr.	UNINA9910968232303321
Autore	Chaudhuri Uttam Ray
Titolo	Fundamentals of automatic process control / / by Uttam Ray Chaudhuri and Utpal Ray Chaudhuri
Pubbl/distr/stampa	Boca Raton, FL : , : CRC Press, an imprint of Taylor and Francis, , 2012
ISBN	1-04-005664-4 0-429-08832-9 1-62870-724-0
Edizione	[First edition.]
Descrizione fisica	1 online resource (303 p.)
Collana	Chemical Industries ; ; 134
Classificazione	SCI013060TEC009070
Disciplina	660/.281
Soggetti	Chemical process control
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di contenuto	Front Cover; Contents; Preface; Acknowledgments; Authors; Chapter 1 - An Introduction to Automatic Process Control; Chapter 2 - Open-Loop Process Dynamics and Transfer Functions; Chapter 3 - Disturbances and Responses; Chapter 4 - Process Control Loop System and Analysis; Chapter 5 - Control Loop Analysis; Chapter 6 - Tuning of PID Controllers; Chapter 7 - Advanced Control Strategies; Chapter 8 - Virtual Laboratory; Chapter 9 - Computer Control; Chapter 10 - Selected Problems and Solutions of GATE Examinations from 2002 to 2012; Back Cover
Sommario/riassunto	Strong theoretical and practical knowledge of process control is essential for plant practicing engineers and operators. In addition being able to use control hardware and software appropriately, engineers must be able to select or write computer programs that interface the hardware and software required to run a plant effectively. Designed to help readers understand control software and strategies that mimic human activities, Fundamentals of Automatic Process Control provides an integrated introduction to the hardware and software of automatic control systems.