Record Nr. UNINA9910824686803321 Autore Chaudhuri Uttam Ray Titolo Fundamentals of automatic process control / / by Uttam Ray Chaudhuri and Utpal Ray Chaudhuri Boca Raton, FL:,: CRC Press, an imprint of Taylor and Francis,, 2012 Pubbl/distr/stampa 1-04-005664-4 **ISBN** 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.