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Autore	Lieberman Norman P.
Titolo	Troubleshooting process plant control : a practical guide to avoiding and correcting mistakes // Norman P. Lieberman
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Edizione	[Second edition.]
Descrizione fisica	1 online resource (321 pages)
Disciplina	660/.2815
Soggetti	Petroleum refineries - Maintenance and repair Chemical process control
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Learning from experience -- Process control parameter measurement -- Dependent and independent variables -- Binary distillation of pure components -- Distillation tower pressure control -- Control of aqueous phase (waste water) strippers -- Pressure control in multicomponent systems -- Optimizing fractionation efficiency by temperature profile -- Analyzer process control -- Fired heater combustion air control -- Using existing controls to promote energy efficiency -- Sizing process control valves -- Control valve position on instrument air failure -- Override and split-range process control -- Vacuum system pressure control -- Reciprocating compressors -- Centrifugal compressor surge vs. motor over-amping -- Controlling centrifugal pumps -- Steam turbine control -- Steam and condensate control -- Control of process reactions -- Function of the process control engineer -- Steam quality and moisture content -- Level, pressure, flow, and temperature indication methods -- Alarm and trip design for safe plant operations -- Inverted response of process parameters -- Nonlinear process responses -- Control malfunction stories.

