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| Nota di contenuto       | Troubleshooting Process Plant Control; Contents; PREFACE; INTRODUCTION-A HISTORY OF POSITIVE FEEDBACK LOOPS; Chapter 1 Learning from Experience; Chapter 2 Process Control Parameter Measurement; Chapter 3 Dependent and Independent Variables; Chapter 4 Binary Distillation of Pure Components; Chapter 5 Distillation Tower Pressure Control; Chapter 6 Pressure Control in Multicomponent Systems; Chapter 7 Optimizing Fractionation Efficiency by Temperature Profile; Chapter 8 Analyzer Process Control; Chapter 9 Fired Heater Combustion Air Control; Chapter 10 Sizing Process Control Valves Chapter 11 Control Valve Position on Instrument Air FailureChapter 12 Override and Split-Range Process Control; Chapter 13 Vacuum System Pressure Control; Chapter 14 Reciprocating Compressors; Chapter 15 Centrifugal Compressor Surge vs. Motor Over-Amping; Chapter 16 Controlling Centrifugal Pumps; Chapter 17 Steam Turbine Control; Chapter 18 Steam and Condensate Control; Chapter 19 Function of the Process Control Engineer; Chapter 20 Steam Quality and Moisture Content; Chapter 21 Level, Pressure, Flow, and Temperature Indication Methods |

Chapter 22 Alarm and Trip Design for Safe Plant OperationsChapter 23  
Nonlinear Process Responses; ABOUT MY SEMINARS; FURTHER  
READINGS ON TROUBLESHOOTING PROCESS CONTROLS; THE NORM  
LIEBERMAN VIDEO LIBRARY OF TROUBLESHOOTING PROCESS  
OPERATIONS; INDEX

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Sommario/riassunto

The book focuses on process control in the petroleum and refinery industries, with an emphasis on problem solving. The author explores various real life examples and relays the lessons learned from his career in this area. He explains many new yet straightforward concepts without the use of complex mathematics. This handy go-to emphasizes single and well-established process engineering principles that will help working engineers and operators switch manual control loops to automatic control.

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