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Nota di contenuto	Half Title -- Title Page -- Copyright -- Dedication -- Contents -- About the Authors -- Acknowledgments -- Preface -- Chapter 1 Manufacturing and Production Processes: The Raw Facts -- Chapter 2 Control of Discrete Processes -- Chapter 3 Control of Continuous Processes: Stay In the Loop -- Chapter 4 Process Control Systems: A Theory of Evolution -- Chapter 5 Control of Batch Processes: Let Them Eat Cake -- Chapter 6 Advanced Process Control: Beauty Beats the Beast -- Chapter 7 Optimization: Math Gone Wild -- Chapter 8 Simulation and Modeling: A Look Before You Leap -- Chapter 9 Safety Management Systems: Expect the Unexpected -- Chapter 10 Automation System Security: Checkmate -- Chapter 11 SCADA Systems: Beyond Four Walls -- Chapter 12 Quality Management: A Tale of Two Processes -- Chapter 13 Asset Management—Maintenance Management: Coming of Age -- Chapter 14 Human-Machine Interfacing—SCADA Software: Breaking Away from a DCS -- Chapter 15 Manufacturing Execution Systems: Two Becoming One -- Chapter 16 Enterprise Resource Planning: Business Software on Top of Automation -- Chapter 17 Automation System Integration: Enabling the Right Solution -- Chapter 18 Business Measurement and Intelligence Systems: Real-Time Knowledge -- Chapter 19 Operations Business Excellence: A New Frontier -- Chapter 20 Enterprise Control Systems: Grabbing the Technology Edge -- Chapter 21 The Bottom

Sommario/riassunto

After a quick glance at the plant floor, it is very easy to see the industrial automation industry interoperates with other functions within the enterprise. Trying to keep up with changing technologies, however, is never easy and the industrial automation environment is no exception. Whether you are a student just starting out or are a top-level executive or manager well-versed in one domain, but have limited knowledge of the industrial automation industry, it's easy to find yourself adrift in this evolving industry. That is where this easy-to-read book comes in; it provides a basic functional understanding in the field of industrial automation. In an effort to understand this industry, the authors break down the barriers and confusion surrounding the technical details and terminology used in this converging field. They provide an introductory-level approach, covering most of the major industrial automation topics, such as distributed control systems (DCSs), programmable logic controllers (PLCs), manufacturing execution systems (MESs), and so on. You may even learn a recipe or two. This book is ideal for executives, business managers, information technologists, accountants, maintenance professionals, operators, production planners, just to name a few, and provides an in-depth but easy overview for people new to the field who want to quickly educate themselves.
