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Automation is the technology that is designed to function without human assistance. Various control systems are used for the operation of equipment used in factories, boilers, ships, aircraft, etc. Automation is achieved by integrating hydraulic, electrical, mechanical, pneumatic and electronic devices and computers. It results in labor, electricity cost and material cost saving. It also ensures improvement of quality, precision and accuracy. Computer-integrated manufacturing is the approach to the use of computers for controlling the production process. It allows the exchange of information between processes. It is used in multiple domains, such as in mechanical engineering, electronic design automation, industrial and production engineering, etc. This book unfolds the innovative aspects of automation, production systems and computer-integrated manufacturing which will be crucial for the holistic understanding of modern manufacturing. Most of the topics introduced herein cover new techniques and the applications of these processes. As this field is emerging at a rapid pace, the contents of this book will help the readers understand the modern concepts and applications of the subjects.

This book provides an extended overview and fundamental knowledge in industrial automation, while building the necessary knowledge level for further specialization in advanced concepts of industrial automation. It covers a number of central concepts of industrial automation, such as basic automation elements, hardware components for automation and process control, the latch principle, industrial automation synthesis, logical design for automation, electropneumatic automation, industrial networks,

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basic programming in PLC, and PID in the industry.

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