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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

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