



# Programmable Logic Controllers: Industrial Control

*Khaled Kamel, Eman Kamel*

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## **A Complete, Hands-on Guide to Programmable Logic Controllers**

*Programmable Logic Controllers: Industrial Control* offers a thorough introduction to PLC programming with focus on real-world industrial process automation applications. The Siemens S7-1200 PLC hardware configuration and the TIA Portal are used throughout the book. A small, inexpensive training setup illustrates all programming concepts and automation projects presented in the text. Each chapter contains a set of homework questions and concise laboratory design, programming, debugging, or maintenance projects. This practical resource concludes with comprehensive capstone design projects so you can immediately apply your new skills.

### **COVERAGE INCLUDES:**

- Introduction to PLC control systems and automation
- Fundamentals of PLC logic programming
- Timers and counters programming
- Math, move, and comparison instructions
- Device configuration and the human-machine interface (HMI)
- Process-control design and troubleshooting
- Instrumentation and process control
- Analog programming and advanced control
- Comprehensive case studies
- End-of-chapter assignments with odd-numbered solutions available online
- Online access to multimedia presentations and interactive PLC simulators

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