

## Industrial Automation. Circuit Design and Components

**Description:** The first book to combine all of the various topics relevant to low-cost automation. Practical approach covers methods immediately applicable to industrial problems, showing how to select the most appropriate control method for a given application, then design the necessary circuit. Focuses on the control circuits and devices (electronic, electro-mechanical, or pneumatic) used in small- to mid-size systems. Stress is on on-off (binary) control as opposed to continuous feedback (analog) control. Discusses well-known procedures and their modifications, and a number of original techniques and circuit design methods. Covers "flexible automation," including the use of microcomputers.

**Contents:**

- Motion Actuators.
- Sensors.
- Introduction to Switching Theory.
- Industrial Switching Elements.
- Electric Ladder Diagrams.
- Sequential Systems with Random Inputs.
- Pneumatic Control Circuits.
- Miscellaneous Switching Elements and Systems.
- Semiflexible Automation: Hardware Programmers.
- Flexible Automation: Programmable Controllers.
- Flexible Automation: Microcomputers.
- Introduction to Assembly Automation.
- Robotics and Numerical Control.
- Appendices.
- Index.

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