



# Industrial Electricity and Motor Controls, Second Edition

By Rex Miller, Mark Miller



**Industrial Electricity and Motor Controls, Second Edition** By Rex Miller, Mark Miller

## The most complete, up-to-date guide to industrial electricity

This practical resource offers comprehensive coverage of the entire electrical field and its equipment, including troubleshooting and repair. You'll learn how to read and interpret schematics and drawings and safely work with all electrical components and systems on the jobsite.

The Second Edition features a new chapter on robotics, a new 16-page color insert, and information on the latest codes, regulations, and devices. Filled with more than 650 photos and diagrams, study questions, review problems, and detailed answers, this career-building tool helps you enhance your electrical and electronics expertise and apply it effectively in the workplace.

*Industrial Electricity and Motor Controls*, Second Edition covers:

- Tools and equipment
- Safety in the workplace
- Symbols used in electrical wiring diagrams and ladder diagrams
- Control circuits and diagrams
- Switches
- Magnetism and solenoids
- Relays
- Electric motors
- Timers and sensors
- Solenoids and valves
- Motor starting methods
- Solid-state reduced-voltage starters
- Speed control and monitoring
- Motor control and protection
- Three-phase controllers
- Drives
- Transformers
- Power generation
- Power distribution systems
- Programmable controllers
- Robotics

- Careers in electricity

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### Editorial Review

#### About the Author

**Rex Miller** is Professor Emeritus of Industrial Technology at the State University of New York College at Buffalo where he taught technical curriculums at the college level for more than 40 years. Dr. Miller is the author or coauthor of more than 100 textbooks and a like number of magazine articles. His books include McGraw-Hill's bestselling *Electrician's Pocket Manual*, *Carpentry & Construction* and *Electricity and Electronics for HVAC*.

**Mark R. Miller** is Professor and Coordinator of Industrial Technology at the University of Texas at Tyler. He is the author or coauthor of more than 30 textbooks for trade and technical programs, including *Electricity and Electronics for HVAC*.

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