



Electrical Wiring Industrial

By Stephen L. Herman

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ELECTRICAL WIRING INDUSTRIAL, 15E is the complete, step-by-step guide to wiring industrial buildings according to the current 2014 National Electrical Code. An ideal on-the-job reference for apprentice and journeyman electricians, building contractors, and anyone working in the electrical field, ELECTRICAL WIRING INDUSTRIAL, 15E presents concise, straightforward information in a practical, task-oriented style. Chapter topics explore all fundamentals, from installing new electrical service and changeovers from old systems to project planning and maintenance procedures. The book highlights the 2014 National Electrical Code throughout the readings to demonstrate code updates, as well as how to apply requirements to sitework, feeder bus systems, panelboards, fiber optics, harmonics, and more . In addition to a full sample set of industrial building plans, ELECTRICAL WIRING INDUSTRIAL, 15E illustrates concepts with stimulating drawings, photographs, and other graphics to support learning and develop the reasoning skills that can elevate you to the next level of your career.

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Editorial Review

Review

1. Plans and Sitework. 2. The Unit Substation. 3. Feeder Bus System. 4. Panelboards. 5. Trolley Busways. 6. Using Wire Tables and Determining Conductor Sizes. 7. Signaling Systems. 8. Motors and Controllers. 9. Motor Installation. 10. Power Factor. 11. Ventilating, Air Conditioning, and Other Facilities. 12. System Protection. 13. Lightning Protection. 14. Site Lighting. 15. Programmable Logic Controllers. 16. Fiber Optics. 17. Hazardous Locations. 18. Harmonics.

About the Author

Stephen L. Herman is a retired electrician and teacher with more than 30 years of experience to his credit. A seasoned author, his reader-friendly textbooks on electricity and mathematics are popular with students and instructors alike. For two decades Mr. Herman was lead instructor for the Electrical Technology Curriculum at Lee College in Baytown, Texas, where he received an Excellence in Education Award from the Halliburton Education Foundation. He also taught at Randolph Community College in Asheboro, N.C., for nine years and helped establish an electrical curriculum for Northeast Texas Community College in Mount Pleasant, Texas. His additional publications include ELECTRIC MOTOR CONTROL, ELECTRICITY AND CONTROLS FOR HVAC/R, INDUSTRIAL MOTOR CONTROLS, UNDERSTANDING MOTOR CONTROLS, ELECTRONICS FOR ELECTRICIANS, ALTERNATING CURRENT FUNDAMENTALS, DIRECT CURRENT FUNDAMENTALS, ELECTRICAL STUDIES FOR TRADES, ELECTRICAL PRINCIPLES, EXPERIMENTS IN ELECTRICITY FOR USE WITH LAB VOLT EQUIPMENT, THE COMPLETE LABORATORY MANUAL FOR ELECTRICITY, and PRACTICAL PROBLEMS IN MATHEMATICS FOR ELECTRICIANS.

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