



Electrical Wiring Industrial

By Stephen L. Herman

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ELECTRICAL WIRING INDUSTRIAL, 14th Edition is the ideal resource for anyone in the industrial electricity industry. This book is fully updated to reference the 2011 National Electrical Code and guides readers step-by-step through the wiring of an entire industrial building. ELECTRICAL WIRING INDUSTRIAL, 14E has a practical, straightforward approach that begins by covering the tasks and responsibilities facing today's professional industrial electricians, including: installation of electrical service; power and lighting; special new construction systems; changeovers from old systems; planning for growth and increased capacity; and periodic maintenance procedures. Specific references to the 2011 National Electrical Code throughout show readers how to incorporate codes and principles into everyday practice and procedures. A complete set of industrial building plans is included, offering readers opportunities for hands-on practice in interpreting and applying Code requirements to sitework, feeder bus systems, panelboards, fiber optics, harmonics, hazardous locations, and more.

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Editorial Review

Review

Plans and Sitework. The Unit Substation. Feeder Bus System. Panelboards. Trolley Busways. Using Wire Tables and Determining Conductor Sizes. Signaling Systems. Motors and Controllers. Motor Installation. Power Factor. Ventilating, Air Conditioning, and Other Facilities. System Protection. Lightning Protection. Site Lighting. Programmable Logic Controllers. Fiber Optics. Hazardous Locations. 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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