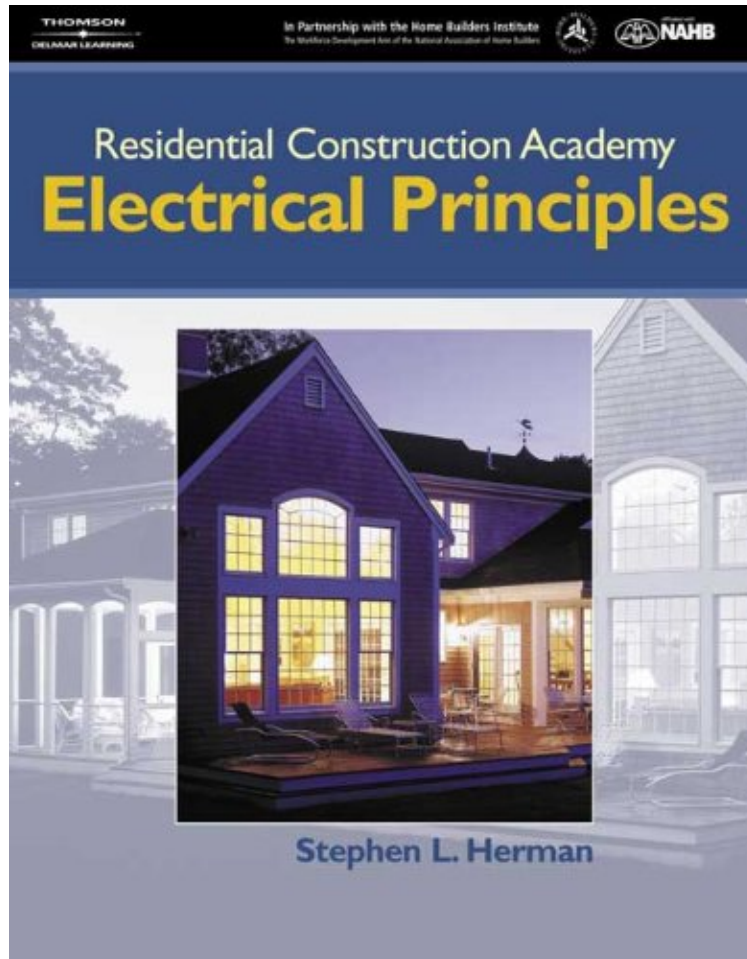


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Residential Construction Academy: Electrical Principles (Residential Construction Academy Series)

Stephen L. Herman

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Stephen L. Herman : Residential Construction Academy: Electrical Principles (Residential Construction Academy Series) before purchasing it in order to gage whether or not it would be worth my time, and all praised Residential Construction Academy: Electrical Principles (Residential Construction Academy Series):

0 of 0 people found the following review helpful. Err...By John F Grafi found this to be one of the most boring classes I have ever taken once you get to be around chapter 10 and on. But hey, that's just me. You may love series, parallel and combination circuits. I yawn, put me out in the field.0 of 0 people found the following review helpful. Remarkably pleased.By Rene GutierrezThe BOOK was outstanding. Swift to send. . Remarkably pleased.0 of 0 people found the following review helpful. Four StarsBy ling wanggood book but have not read it much yet.

Part of the Residential Construction Academy series, *Electrical Principles* bridges the gap between theory books that include topics that electricians do not need to know (e.g., resonance and devices) and books for electricians that try to cover all the theory in one chapter. Instead, through the use of a lively writing style and frequent examples, Stephen Herman expands on the important topics that residential electricians need, so that students have time to fully grasp the concepts they'll need on the job. This text focuses on the theory that a residential wireman needs and it includes important safety and OSHA information. Create a direct link between your education/training program and the residential construction industry! Training materials are now available for many of the residential crafts based on skill standards developed by the nation's leading builders and educators. The result of a strategic partnership between the National Association of Home Builders Home Builders Institute and Delmar Learning, the Residential Construction Academy Series is the perfect way to teach essential workplace skills to people new to the building trades. Ideal for use in vocational programs, workforce development programs, professional associations, and trade unions, all materials are based on industry standards. The Residential Construction Academy also offers credentialing for programs using the skill standards and materials, along with a national registry of students who have successfully completed participating programs. The goal is a workforce that is skilled, knowledgeable, and able to meet the needs of the industry today and well into the future.

SECTION I: Basic Electricity. 1. Safety. 2. Basic Electrical Theory. 3. Electrical Quantities and Ohm's Law. 4. Resistor. 5. Series Circuits. 6. Parallel Circuits. 7. Combination Circuits. 8. Measuring Instruments. 9. Using Wire Tables and Determining Conductor Sizes. 10. Magnetic Induction. SECTION II: Alternating Current. 11. Alternating Current. 12. Inductance in Alternating Current Circuits. 13. Resistive-Inductive Series Circuits. 14. Resistive-Inductive Parallel Circuits. 15. Capacitors. 16. Single-Phase Transformers. 17. Single-Phase Motors.

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*.