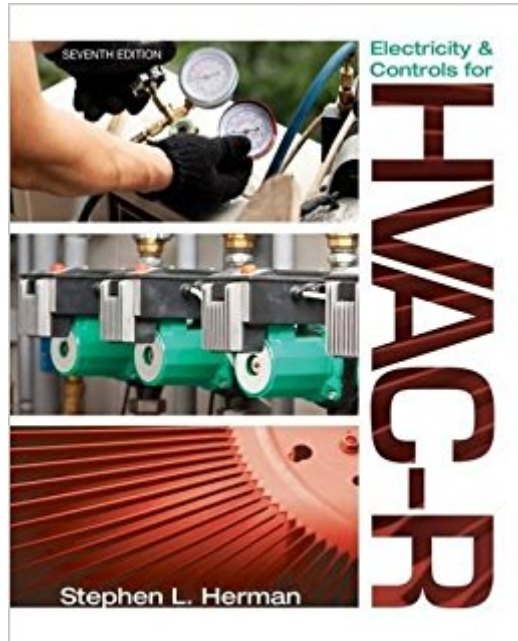


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# Electricity And Controls For HVAC-R



## Synopsis

Offering the most up-to-date coverage available, *ELECTRICITY AND CONTROLS FOR HVAC-R*, 7e emphasizes the basics as it equips readers with the information needed to work effectively with all types of motors and control devices found in the heating and air-conditioning industry. Extremely reader friendly, the text reflects the current National Electrical Code and requires no prior knowledge of electricity. It begins with discussions of essential basic electricity and electrical circuits concepts, while detailed schematic diagrams and step-by-step troubleshooting procedures highlight all of the different types of circuits commonly encountered in the HVAC-R field. The Seventh Edition is packed with vibrant photos, engaging illustrations, and coverage of the latest technology and developments from the field.

## Book Information

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## Customer Reviews

Part I: BASIC ELECTRICITY. 1. Atomic Structure. 2. Electrical Quantities and Ohm's Law. 3. Measuring Instruments. 4. Electrical Circuits. 5. Electrical Services. 6. Wire Size and Voltage Drop. 7. Inductance. 8. Capacitance. Part II: CONTROL CIRCUITS. 9. Schematic and Wiring Diagrams. 10. Developing Wiring Programs. Part III: MOTORS. 11. Split-Phase Motors. 12. The Shaded-Pole Induction Motor. 13. Multispeed Motors. 14. Three-Phase Motor Principles. 15. The Squirrel-Cage Induction Motor. 16. The Wound Rotor Induction Motor. 17. The Synchronous Motor. 18. Brushless DC Motors. Part IV: TRANSFORMERS. 19. Isolation Transformers. 20. Autotransformers. 21. Current Transformers. Part V: CONTROL COMPONENTS. 22. Overloads. 23. Relays, Contactors,

and Motor Starters. 24. The Solid-State Relay. 25. The Control Transformer. 26. Starting Relays. 27. Variable-Speed Motor Control. 28. The Defrost Timer. 29. The Thermostat. 30. Pressure Switches. 31. The Flow Switch. 32. The Humidistat. 33. Fan-Limit Switches. 34. The Oil-Pressure Failure Switch. 35. Solenoid Valves. 36. The Short-Cycle Timer. 37. Methods of Sensing Temperature. 38. Gas Burner Controls. 39. Oil Burner Controls. Part VI: TROUBLESHOOTING USING CONTROL SCHEMATICS. 40. Introduction to Troubleshooting. 41. Room Air Conditioners. 42. A Commercial Air-Conditioning Unit. 43. Heat-Pump Controls. 44. Packaged Units: Electric Air Conditioning and Gas Heat. Part VII: ICE MAKER AND REFRIGERATION CONTROLS. 45. Household Ice Makers. 46. Commercial Ice Makers. 47. Refrigeration Controls. Part VIII: SOLID-STATE DEVICES. 48. Resistors and Color Codes. 49. Semiconductor Materials. 50. Diodes. 51. Light-Emitting Diodes (LEDs) and Photodiodes. 52. The Transistor. 53. The Unijunction Transistor. 54. The Silicon-Controlled Rectifier and GTO. 55. The Diac and SBS. 56. The Triac. 57. The Operational Amplifier. Part IX: SOLID-STATE CONTROLS. 58. Programmable Logic Controllers. 59. Programming a PC. 60. Analog Sensing for Programmable Controllers. Glossary. Index.

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.

Very good book

Book has writer errors in it confuses the reader in trying to understand electricity. I would recommend writer reading it and fixing the errors in it, so it can be more understanding to the reader. I would not recommend this book to someone to read and learn from it unless you have an instructor to help you out.

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