



Electricity for Refrigeration, Heating, and Air Conditioning

By *Russell E. Smith*

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The ideal book for students and beginning technicians, this Ninth Edition of **ELECTRICITY FOR REFRIGERATION, HEATING, AND AIR CONDITIONING** provides readers with the basic electrical principles necessary to understand today's modern control systems. The book's practical approach allows readers to focus exclusively on the electronics information they will use in the field, without bogging them down in unnecessary theory. The book focuses on helping readers master systematic diagnosis and troubleshooting methods and procedures that will enable them to become highly-skilled, professional HVAC-R service technicians.

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Editorial Review

Review

1. Electrical Safety. 2. Basic Electricity. 3. Electric Circuits. 4. Electric Meters. 5. Components, Symbols and Circuitry of Air Conditioning Wiring Diagrams. 6. Reading Schematic Diagrams. 7. Alternating Current, Power Distribution, and Voltage Systems. 8. Installation of Heating and Air Conditioning Systems. 9. Electric Motors. 10. Components of Electric Motors. 11. Contractors, Relays and Overloads. 12. Thermostats, Pressure Switches, and Other Electric Control Devices. 13. Electronic Control Devices. 14. Heating Control Devices. 15. Troubleshooting Electric Control Devices. 16. Residential Air Conditioning Control Systems. 17. Light Commercial Air Conditioning Control Systems. 18. Troubleshooting Refrigeration, Heating, and Air-Conditioning Control Circuits and Systems.

About the Author

Russell E. Smith is an Air Conditioning Technology Instructor emeritus at Athens Technical College in Athens, Georgia. Mr. Smith also ran his own contracting and consulting firm for many years. He is a Certificate Member of the Refrigeration Service Engineers Society and holder of Conditioned Air Non-Restricted in the State of Georgia. He holds an AE in Air Conditioning Engineering.

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