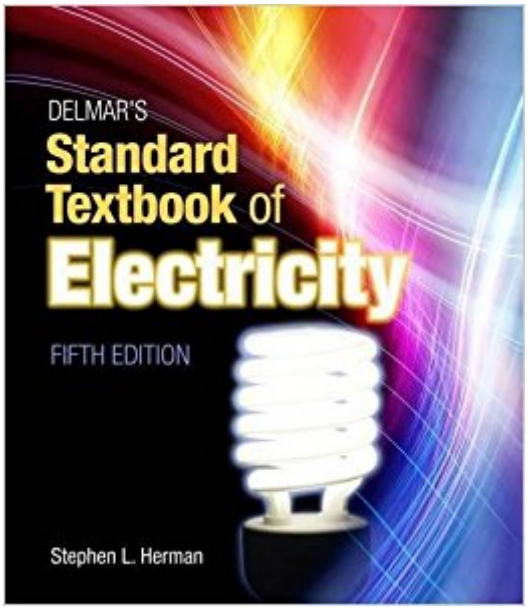
Delmar's Standard Textbook Of Electricity, 5th Edition



Synopsis

Mastering the theory and application of electrical concepts is necessary for a successful career in the electrical installation or industrial maintenance fields, and this new fifth edition of DELMAR'S STANDARD TEXTBOOK OF ELECTRICITY delivers! Designed to teach by blending concepts relating to electrical theory and principles with practical 'how to' information that prepares you for situations commonly encountered on the job. Topics span all the major aspects of the electrical field including atomic structure and basic electricity, direct and alternating current, basic circuit theory, three-phase circuits, single phase, transformers, generators, and motors. This revision retains all the hallmarks of our market-leading prior editions and includes enhancements such as updates to the 2011 NEC, a new chapter on industry orientation, and new coverage of constant-current transformers and fuel cells as well as tips on energy efficiency throughout the text

Book Information

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Customer Reviews

Introduction: Electrical Occupations 1. Atomic Structure. 2. Electrical Quantities and Ohm's Law. 3. Static Electricity. 4. Magnetism. 5. Resistors. 6. Series Circuits. 7. Parallel Circuits. 8. Combination Circuits. 9. Kirchhoff's Law, Thevenin's and Norton's Theorems. 10. Measuring Instruments. 11. Using Wire Tables and Determining Conductor Sizes. 12. Conduction in Liquids and Gases. 13. Batteries and Other Sources of Electricity. 14. Magnetic Induction. 15. Basic Trigonometry and Vectors. 16. Alternating Current. 17. Inductance in Alternating Current Circuits. 18. Resistive-Inductive Series Circuits. 19. Resistive-Inductive Parallel Circuits. 20. Capacitors. 21.

Capacitance in Alternating Current Circuits. 22. Resistive-Capacitive Series Circuits. 23. Resistive-Capacitive Parallel Circuits. 24. Resistive-Inductive-Capacitive Series Circuits. 25. Resistive-Inductive-Capacitive Parallel Circuits. 26. Filters. 27. Three-Phase Circuits. 28. Single-Phase Transformers. 29. Three-Phase Transformers. 30. Direct Current Generators. 31. Direct Current Motors. 32. Three-Phase Alternators. 33. Three-Phase Motors. 34. Single-Phase Motors.

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, ELECTRICAL WIRING INDUSTRIAL, ALTERNATING CURRENT FUNDAMENTALS, DIRECT CURRENT FUNDAMENTALS, ELECTRICAL STUDIES FOR TRADES, ELECTRICAL PRINCIPLES, ELECTRICAL TRANSFORMERS AND ROTATING MACHINES, EXPERIMENTS IN ELECTRICITY FOR USE WITH LAB VOLT EQUIPMENT, THE COMPLETE LABORATORY MANUAL FOR ELECTRICITY, and PRACTICAL PROBLEMS IN MATHEMATICS FOR ELECTRICIANS.

Herman provides us with a pretty thorough picture of electrical theories and practice. A thick, heavy tome, I have found it very useful in my studies. One of the better electrical textbooks available in English.

Can’t say enough good things about this book. I work in electrical maintenance and this book has given me crucial safety information when it comes to working with electricity. I would absolutely recommend this book to friends and coworkers or anybody that wants to know the basics of electricity.

Great product, pleasure doing business.

Recommended by my instructor, have no regrets

Great textbook for learning electricity

very happy with purchase.

This book is excellent for understanding basic electrical principles and for reference.

This textbook it is just what I needed to learn electricity for my residentialwiring class. It is awesome !David BuesoChapel Hill,NC

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