



# The Complete Lab Manual for Electricity

By Stephen Herman

Download now

Read Online 

## The Complete Lab Manual for Electricity By Stephen Herman

The Complete Laboratory Manual for Electricity, 3rd Edition is a valuable tool designed to fit into any basic electrical program that incorporates lab experience. This updated edition will enhance your lab practices and the understanding of electrical concepts. From basic electricity through AC theory, transformers, and motor controls, all aspects of a typical electrical curriculum are explored in a single volume. Each lab features an explanation of the circuit to be connected, with examples of the calculations necessary to complete the exercise and step-by-step procedures for conducting the experiment. Hands-on experiments that acquaint readers with the theory and application of electrical concepts offer valuable experience in constructing a multitude of circuits such as series, parallel, combination, RL series and parallel, RC series and parallel, and RLC series and parallel circuits.

 [Download The Complete Lab Manual for Electricity ...pdf](#)

 [Read Online The Complete Lab Manual for Electricity ...pdf](#)

# The Complete Lab Manual for Electricity

*By Stephen Herman*

## The Complete Lab Manual for Electricity By Stephen Herman

The Complete Laboratory Manual for Electricity, 3rd Edition is a valuable tool designed to fit into any basic electrical program that incorporates lab experience. This updated edition will enhance your lab practices and the understanding of electrical concepts. From basic electricity through AC theory, transformers, and motor controls, all aspects of a typical electrical curriculum are explored in a single volume. Each lab features an explanation of the circuit to be connected, with examples of the calculations necessary to complete the exercise and step-by-step procedures for conducting the experiment. Hands-on experiments that acquaint readers with the theory and application of electrical concepts offer valuable experience in constructing a multitude of circuits such as series, parallel, combination, RL series and parallel, RC series and parallel, and RLC series and parallel circuits.

## The Complete Lab Manual for Electricity By Stephen Herman Bibliography

- Sales Rank: #867447 in Books
- Brand: Brand: Delmar Learning
- Published on: 2008-02-25
- Released on: 2008-02-25
- Original language: English
- Number of items: 1
- Dimensions: 10.88" h x 1.09" w x 8.50" l, 2.09 pounds
- Binding: Paperback
- 480 pages

 [Download The Complete Lab Manual for Electricity ...pdf](#)

 [Read Online The Complete Lab Manual for Electricity ...pdf](#)

## **Editorial Review**

### Review

Section 1: MEASURING INSTRUMENTS AND BASIC ELECTRICITY. Measuring Instruments. Ohm's Law. Series Circuits. Parallel Circuits. Combination Circuits. Resistor Color Code. Section 2: ALTERNATING CURRENT LOADS. Inductance. Resistive-Inductive Series Circuit. RL Parallel Circuits. Capacitance. Resistive-Capacitive Series Circuit. RC Parallel Circuits. Resistive-Inductive-Capacitive Series Circuits. Resistive-Inductive-Capacitive Parallel Circuits. Power Factor Correction. Section 3: TRANSFORMERS AND MOTORS. Transformer Basics. Single Phase Transformer Calculations. Transformer Polarities. Autotransformers. Three Phase Circuits. Three Phase Transformers. Three Phase Motors. Section 4: MOTOR CONTROLS. Start-Stop Push-Button Controls. Multiple Push-Button Stations. Forward-Reverse Control. Sequence Control. Jogging Controls. On-Delay Timers. Off-Delay Timers. Changing the Logic of an On-Delay Timer to an Off-Delay Timer. Designing a Printing Press Circuit. Sequence Starting and Stopping for Three Motors. Hydraulic Press Control Circuit. Design of Two Flashing Lights. Design of Three Flashing Lights. Control for Three Pumps. Oil Pressure Pump Circuit for a Compressor. Autotransformer Starter.

### 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, 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.

## **Users Review**

### **From reader reviews:**

#### **Alla Haynes:**

Information is provisions for individuals to get better life, information presently can get by anyone with everywhere. The information can be a understanding or any news even a problem. What people must be consider any time those information which is inside former life are challenging be find than now's taking seriously which one works to believe or which one the particular resource are convinced. If you obtain the unstable resource then you have it as your main information we will see huge disadvantage for you. All those possibilities will not happen throughout you if you take The Complete Lab Manual for Electricity as the daily resource information.

**William Quesada:**

Do you one of the book lovers? If so, do you ever feeling doubt if you are in the book store? Try and pick one book that you find out the inside because don't assess book by its protect may doesn't work here is difficult job because you are afraid that the inside maybe not seeing that fantastic as in the outside search likes. Maybe you answer is usually The Complete Lab Manual for Electricity why because the amazing cover that make you consider regarding the content will not disappoint anyone. The inside or content is definitely fantastic as the outside as well as cover. Your reading sixth sense will directly show you to pick up this book.

**Ann Cason:**

The book untitled The Complete Lab Manual for Electricity contain a lot of information on that. The writer explains the woman idea with easy way. The language is very straightforward all the people, so do certainly not worry, you can easy to read that. The book was written by famous author. The author will bring you in the new time of literary works. It is possible to read this book because you can please read on your smart phone, or device, so you can read the book inside anywhere and anytime. If you want to buy the e-book, you can open their official web-site along with order it. Have a nice learn.

**Arlene Miller:**

Beside this specific The Complete Lab Manual for Electricity in your phone, it might give you a way to get more close to the new knowledge or facts. The information and the knowledge you can got here is fresh through the oven so don't be worry if you feel like an older people live in narrow commune. It is good thing to have The Complete Lab Manual for Electricity because this book offers to your account readable information. Do you oftentimes have book but you seldom get what it's interesting features of. Oh come on, that will not end up to happen if you have this with your hand. The Enjoyable arrangement here cannot be questionable, such as treasuring beautiful island. Techniques you still want to miss the item? Find this book and read it from at this point!

**Download and Read Online The Complete Lab Manual for Electricity By Stephen Herman #VN681IJ9FZY**

## **Read The Complete Lab Manual for Electricity By Stephen Herman for online ebook**

The Complete Lab Manual for Electricity By Stephen Herman Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read The Complete Lab Manual for Electricity By Stephen Herman books to read online.

### **Online The Complete Lab Manual for Electricity By Stephen Herman ebook PDF download**

**The Complete Lab Manual for Electricity By Stephen Herman Doc**

**The Complete Lab Manual for Electricity By Stephen Herman Mobipocket**

**The Complete Lab Manual for Electricity By Stephen Herman EPub**

**VN681IJ9FZY: The Complete Lab Manual for Electricity By Stephen Herman**