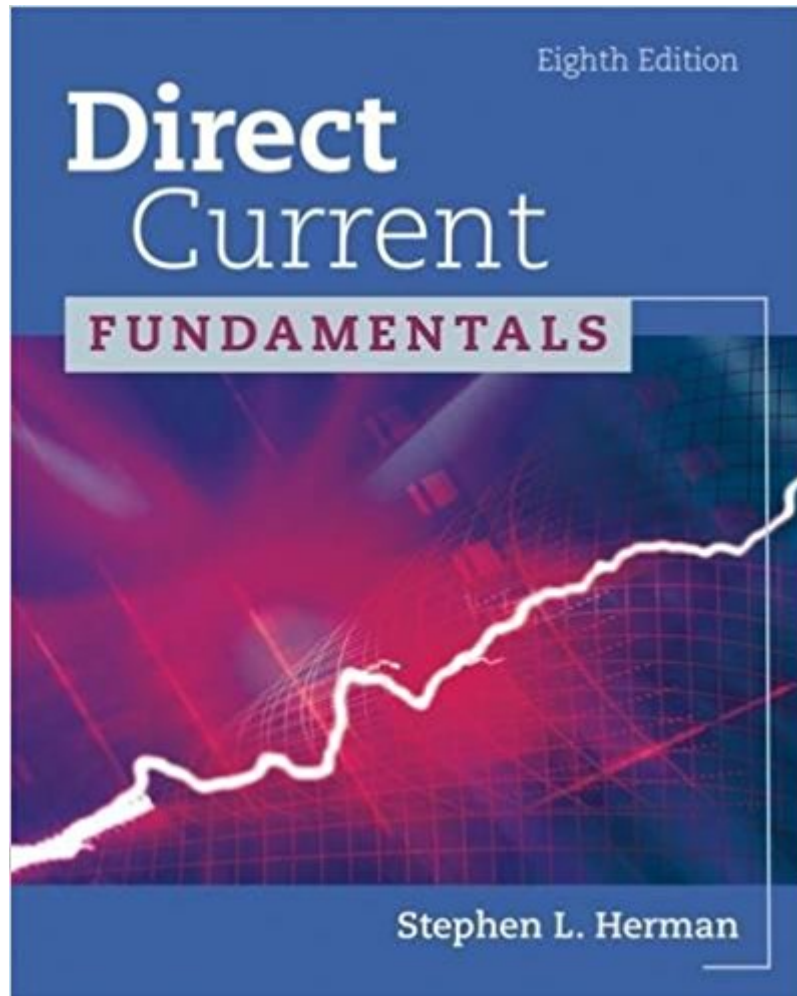




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# Direct Current Fundamentals



## Synopsis

For nearly half a century, this widely acclaimed book has presented the fundamental concepts of direct current electricity and magnetism in a straightforward, practical manner. This reader-friendly guide to DC electrical theory and applications is both thorough and focused, providing detailed coverage in a convenient, affordable volume. The new Eighth Edition retains the distinguishing features that are the cornerstone of this trusted book, including logically organized content that progresses step-by-step from basic principles to advanced concepts. Enhancements for the new edition include updated photographs and illustrations to help you grasp essential concepts quickly and apply your knowledge with confidence, as well as special icons highlighting "green" tips on energy efficiency.

## Book Information

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## Customer Reviews

1. An Introduction to Electricity and Electronics. 2. Electricity Production and Use. 3. Electrostatics. 4. Basic Circuit Concepts. 5. Scientific Notation and Metric Prefixes. 6. Electrical Quantity Measurement. 7. Resistance. 8. Ohms Law. 9. Electrical Power and Energy. 10. Series Circuits. 11. Parallel Circuits. 12. Series-Parallel Circuits and Loaded Voltage Dividers. 13. Conduction in Liquid and Gases. 14. Batteries. 15. Magnetism and Electromagnetism. 16. Applications of Electromagnetism. 17. Electrical Measuring Instruments. 18. Electromagnetic Induction. 19. DC Generators. 20. Mechanical Motion from Electrical Energy. 21. DC Motors. 22. Starters and Speed

Controllers. 23. Solid State Control of Direct Current Motors. 24. Solving DC Networks.

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.

This is a new text at my college Electrical program. I am a student in this program but I was previously a teacher in another field. This book is woeful and a disgrace as printed. Perhaps the author has good hands on technical knowledge but this does not come through in the later chapters of this book. Beginning with generators, and continuing to the end of the book, there are many errors and inconsistencies. Drawings are mislabeled ( a heinous crime for an electrical book purporting to explain circuits!!), and explanations of fundamental concepts are skimpy at best and downright confusing at worst. But the most frustrating thing about this book is not only the lack of coherent explanation, but more grievously, the lack of worked examples to problems. Every chapter ends with review questions that do not have complete worked answers so it is impossible to determine how the author arrived at his answers. An introductory text to a topic as confusing and difficult as generators and motors should have many worked calculations so the student can understand the process. And circuit diagrams should have detailed descriptions of current flow and exactly why things are happening as they are. Instead we are just left to guess the possible reasons. Many students in my class have dropped out because of this book. At the bare minimum, the author should provide a complementary teachers text that explains in detail how to do the review problems and provides teaching notes on the important aspects of each chapter. This book is a

disgrace and the publisher should remove it from publication until all of the errors have been removed and the book has been rewritten to make sense.

This is the companion I wish I had with me years ago for undergraduate electrical fundamentals. The author has a very descriptive and straightforward writing style. The illustrations are detailed but not overwhelming. In fact, if more technical writers were this good, I think the United States would have more engineering and science graduates (Many would-be engineers get discouraged in the first 2 years of college). It is not comprehensive because it lacks the mathematical derivations needed by engineering students. On the other hand, the popular engineering textbooks do not explain the concepts well beyond the math, nor do they provide a motivation to learn beyond what is necessary to pass a college test. I agree with some other reviewers that the suggested retail price is out of line. This book is in its eighth or ninth printing and is not cutting edge material. I deducted one star because the publisher is pricing it out of range for those who want to learn these important fundamentals. Highly recommended for those who can afford it or buy used at a fair price.

New book and got to me on time

I had bought this book to get prepared to take a Master Electrical Licensing test for the City of Wilkes Barre, but this was the wrong book. I kept it because it would not hurt to have it anyway!

Instead of judging and being harsh to supposedly bring cost down, such to bring the book down is not the best way of doing things. The book allows more thought awareness an electrician needs to know what is going on as an electrician and electronics major. The reason I believe there is less examples is because to engage the students. I've learned from this book to make my own tools as well. Every part of the book is so so well done, I gave one to my family even though they're like 12 years old. The instructions of parallel and series is different, so is that of the instructors and that of the lab. The Books way is fundamentally sound due to checking areas that others don't check and the same with the outside world. The pitfall is people believe not to work ahead. To read carefully is to knowing the English language. Is to read for the future. This book isn't for read tiredly, is to read excitedly and safely. To find the suspense more quickly. The problem is people aren't confident in math. Math is not issue of this book, is understanding the properties of circuits, how behaves, and what the characteristics are of the purpose of cooper to that of nickel, iron, steel, nickel and cobalt. In my youth I didn't realize I was a servant to society, until I realized people called me Egotistic at the

sametime others realized afterwards when I remembered how terrible life would be without books like these. Once I realized such work, others were comfortable of their future and I love to work with people that want to lead the example. There's not a lot of books like this book. To take that away is why America is just hurting themselves. Keeping secrets is understandable. I think what's difficult for others is the patience. If you want quick results learning everything in 1 year, that's impossible. Just be an operator on a computer basically. This book is safe in the hand of people that don't realize how the effect is that is positive to society. The generation gap of education in the US is based on breaking down the importance of DC fundamental that equates to many positive field such as for I, the science of empowering the cool idea of medical science of borgs. Anyways, the other part of the book that is interesting is the conduit cable wire. Use of THHN, which cable gauge of copper than that of aluminum. The K coefficient. The use in homes of 12 gauge and 10 gauge. Difference between DC shunt and DC series, difference between DC and AC, why AC creates less heat. Is also because there's instructors that verify with the book that is vitally important. Studied of reluctance, reactance,  $I^2R$  losses, eddy current, permeability, hysteresis, heat, and so on. The problem finding the watts is the total power input is not going to equal power output whereas best indicated by voltage which the book covers. Later the book talks about relays and I always figure more and more about how ground should be. After that I will be getting the next issue of the book. JPL

great

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