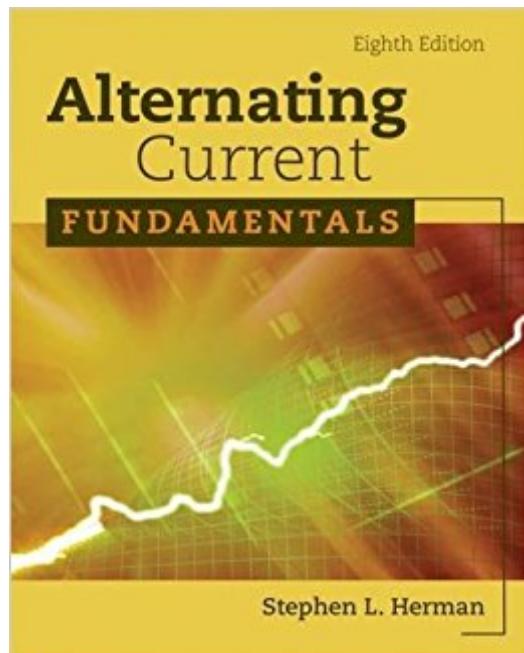


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# Alternating Current Fundamentals



## **Synopsis**

ALTERNATING CURRENT FUNDAMENTALS, 8E, an industrial standard for over thirty years, is the ideal book to provide readers with the most current information available on the essentials of alternating current. The topics in this book are arranged to build readers' knowledge, progressing from basic principles such as the differences between peak, rms, and average values to more complex coverage of circuits containing resistance, inductance, and capacitance. This edition of ALTERNATING CURRENT FUNDAMENTALS, 8E is fully updated, includes additional information on diodes and rectifiers, and contains improved graphics that will assist readers in understanding state-of-the-art concepts.

## **Book Information**

Paperback: 752 pages

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Average Customer Review: 4.1 out of 5 stars 7 customer reviews

Best Sellers Rank: #760,242 in Books (See Top 100 in Books) #90 in Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Power Systems #158 in Books > Textbooks > Engineering > Electrical & Electronic Engineering #478 in Books > Crafts, Hobbies & Home > Home Improvement & Design > How-to & Home Improvements > Electrical

## **Customer Reviews**

1. An Introduction to Alternating Current.
2. Alternating Current Circuits Containing Resistance.
3. Inductance in Alternating Current Circuits.
4. Series Circuits - Resistance and Impedance.
5. Capacitors and RC Time Constants.
6. Capacitors in Alternating Current Circuits.
7. Series Circuits: Resistance, Inductive Reactance and Capacitive Reactance.
8. AC Parallel Circuits.
9. Series-Parallel Circuits.
10. Three-Phase Systems.
11. AC Instruments and Meters.
12. Alternating Current Generators.
13. Transformers.
14. Transformer Connections for Three-Phase Circuits.
15. Special Transformer Applications.
16. Three-Phase Induction Motors.
17. Three-Phase Synchronous Motors.
18. Single-Phase Motors.
19. Control Circuits.

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.

The text was recommended for a Contracting Licensing Exam and it is right on. All pertinent topics are covered thoroughly and I'm looking forward to taking my exam.

Excellent book. Great condition.

This book has a lot of great study guides in it as it is filled with knowledge of the subject at hand!

I had bought this book to get prepared to take a Master Electrical Licensing test for the City of Wilkes Barre. I did not pass that test but be looking forward to attempting it again after Graduate School.

If you are an electrical engineering student or planning to do it and you want to build a foundation in ee this is the book for you. Its explanation of inductance, capacitance, 3 phase supply, induction and synch motor is simply fantastic

Some publishers either don't think twice about overcharging the public or never have competent people read their books before publication. For an electrical book with a price of \$100 or more, one

should get a college level engineering book written well by a highly qualified author. This book is a vocational level collection of the same old stuff that field workers have been saddled with for the last century or more. In short, the the trained monkey version of electricity designed to put field workers on the job without teaching them what electricity is really about. Every few years a new edition comes out with a word or two about new technology or a CD ROM and a big price increase. There ought to be a law against this... To be fair Hermann is a better author than most of these regurgitators of the same old slip shod ideas. He is a few levels above the likes of a Fowler, but then again, who isn't? However, there is no point in getting his latest edition unless you have a gun pointed at you. Do yourself a huge favor and buy or borrow an old edition. Nothing authors like this write is worth more than 15 bucks.

This review applies to the 6th edition. This is a very good introduction to all of the various technologies of modern commercial AC power. It includes good descriptions of various 3-phase systems and their components (alternators, transformers, and motors). The book starts with the the very basics, but a working knowledge of basic math and electronics helps. Very readable with good diagrams. If you want to understand the difference between split-phase and three-phase current, or the difference between an induction motor and a synchronous motor, this is the book for you.

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