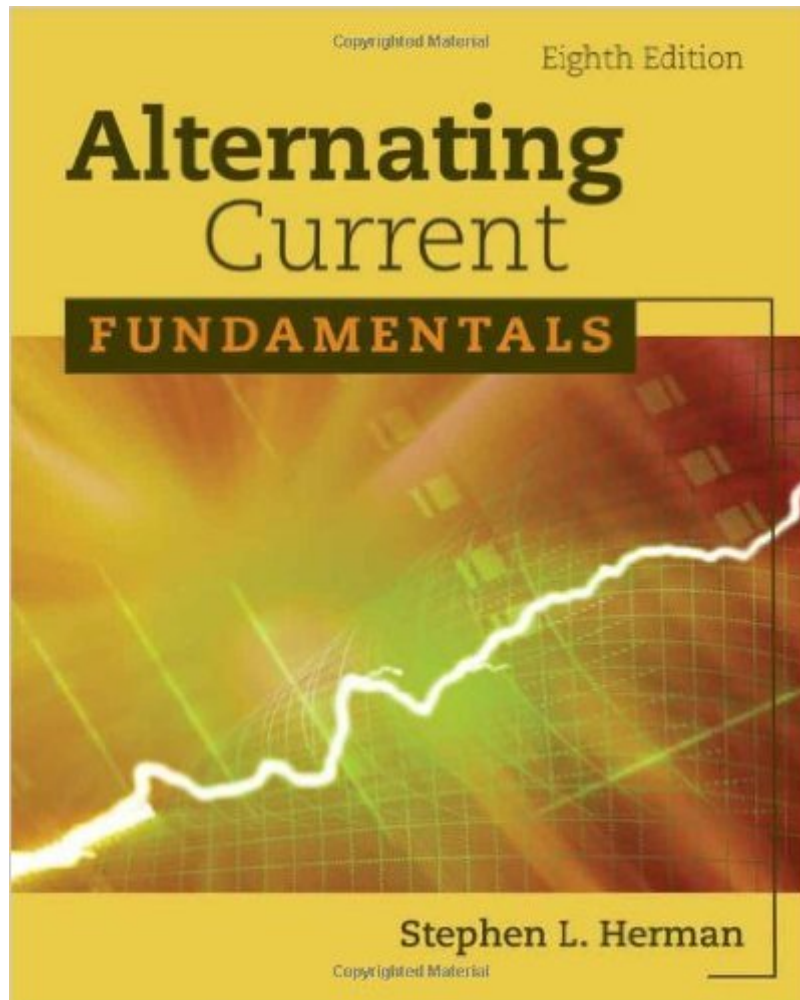


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# Alternating Current Fundamentals



## 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

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Average Customer Review: 4.2 out of 5 stars [See all reviews](#) (6 customer reviews)

Best Sellers Rank: #513,580 in Books (See Top 100 in Books) #54 in [Books > Engineering & Transportation > Engineering > Energy Production & Extraction > Power Systems](#) #105 in [Books > Textbooks > Engineering > Electrical & Electronic Engineering](#) #338 in [Books > Crafts, Hobbies & Home > Home Improvement & Design > How-to & Home Improvements > Electrical](#)

## Customer Reviews

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.

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.

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