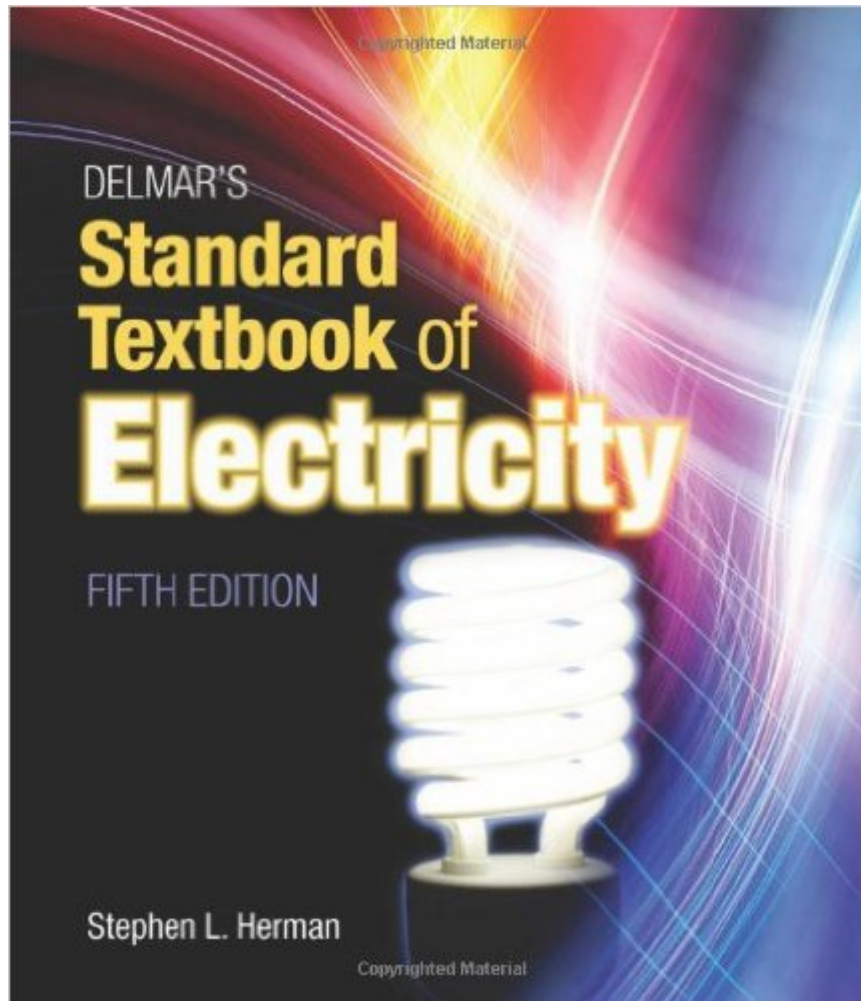


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Delmar's Standard Textbook Of Electricity, 5th Edition



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

This book is required reading for electrical apprentices in Canada. It has lots of practical information and illustrations that are good for the most part. However, I can't let the author off the hook for his incredibly sloppy treatment (poor understanding?) of basic theory. I blame this author for the fact that many electrical instructors are equally foggy on rudimentary theory and sloppy in their use of terminology, and pass their confusion on to generation after generation of students. A small example: the book states that the joule is the SI equivalent of the watt -- completely, inexcuseably fictional -- and then on the very next page it states a legitimate definition of a joule as being one

watt-second. What newbie student needs this? The confusion between energy and power (the rate of energy conversion or work being done) rears its head elsewhere, e.g. in questions like "How many watts of heat are produced when... blah blah blah." The book's descriptions of atomic structure might've passed muster some decades ago, but they're sorely in need of a refresh. No appreciation is shown for the proper use of significant figures in calculations. The results of many of the calculations (unless they happen to produce a nice integer result) are stated arbitrarily to three decimal places, e.g. $120 \times 0.0667 = 8.004$. This precision isn't justified, and the irony is that a properly-rounded result would actually be more accurate. To compound the problem, solutions frequently involve the calculation of unneeded intermediate results, incurring cumulative errors. Why not fully solve the algebraic expressions for the desired unknowns before plugging in numbers?

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