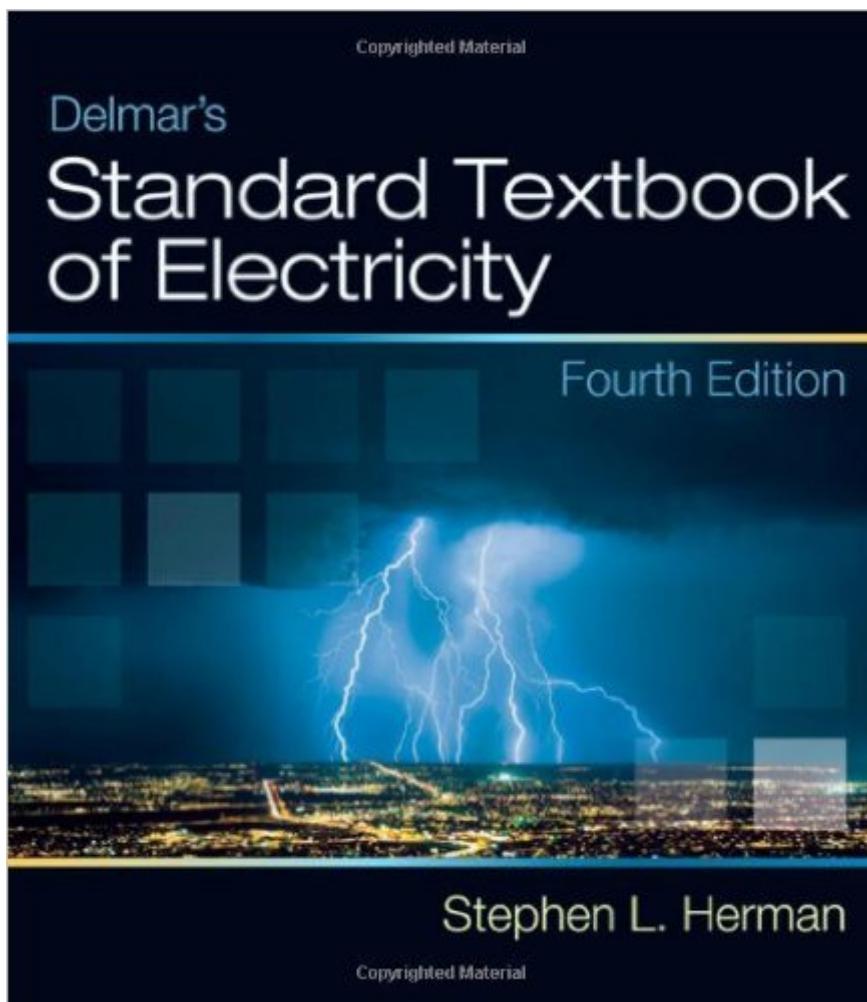


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# Delmar's Standard Textbook Of Electricity, 4th Edition



## **Synopsis**

Understanding the theory and application of electrical concepts is necessary for a successful career in the electrical field specifically in industrial maintenance and installation, and this newly revised, full color text delivers! Delmar's Standard Textbook of Electricity, Fourth Edition trains aspiring electricians by blending concepts relating to electrical theory with practical 'how to' information that prepares readers for situations commonly encountered on the job. This revision retains all the hallmarks of our market-leading prior editions, but displays enhancements such as more practical application problems. Topics span the major aspects of the electrical field including direct and alternating current circuits, basic theory, transformers, generators, and motors. This new edition has been organized so that all relevant information is located within a given chapter which allows for flexibility to access and cover topics in any order making this text an indispensable resource.

## **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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