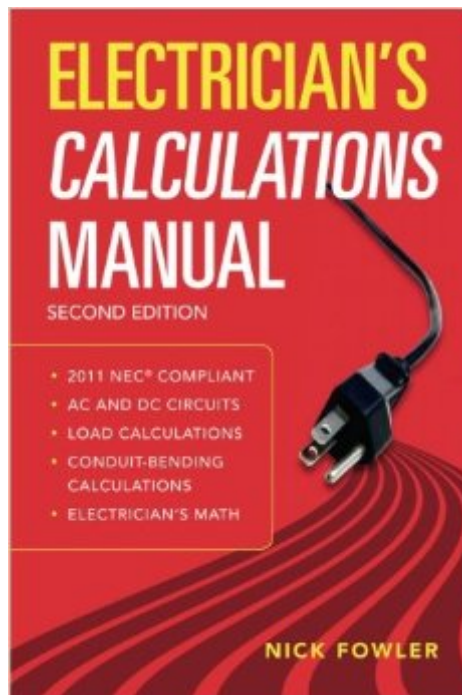


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# Electrician's Calculations Manual, Second Edition



## Synopsis

THE ULTIMATE ON-THE-JOB COMPANION--FULLY UPDATED Thoroughly revised to reflect the 2011 National Electrical Code (NEC) and the latest industry advances, *Electrician's Calculations Manual, Second Edition* gives you quick access to the basic calculations needed for any given job. The book also serves as an ideal review for license preparation. End-of-chapter questions plus an end-of-book final test help reinforce the material covered. Written by a Master Electrician with more than 40 years of experience, this practical guide helps you:

- Find answers for both AC and DC circuits
- Solve problems related to motor circuits and transformers
- Calculate single-dwelling and multifamily loads
- Accurately figure requirements for commercial jobs
- Perform conduit-bending math
- Handle service entrance problems
- Understand the math behind electrical solutions
- And much more

## Book Information

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## Customer Reviews

After further reading, I have amended my previous review downward. I don't much care to find errors in the final publication of technical material. I began finding errors in the overview. An example can be found in paragraph one of the overview, wherein the author says the peak-to-peak voltage is 1.414 times the RMS voltage. That is the peak voltage, not the peak-to-peak voltage. Also, in the second sentence of paragraph number five in the Generation, Transmission, and Distribution section of the Overview, the author states, "The faster the pushing of these electrons, the higher the voltage." This is incorrect. A higher voltage means there is a greater electromotive force (pressure)

pushing the amperage (electrons) through a given resistance. The term "faster" is more relative to the cycles at which the voltage and amperage is motivated through a conductive median. And, I'm still trying to figure out how the author discovered 63.5 electrons in orbit about a copper (Cu) atom, (paragraph four); Or, how anyone might get one-half an electron orbiting about any element for that matter. They really don't make one-half electrons, do they? :-)

Although I have yet to find errors in the calculations, I have found the author's solution to at least one of the problems to be unusually oblique, even circuitous. For example, in Exercise 1-1, problem number 4 states: "A circuit has 1800 watts. What is the voltage if the circuit draws 15 amperes?" The solution given states: "To find the voltage, first find the ohms:  $P/I^2 = R$ ;  $1800/15^2 = 1800/225 = 8$  ohms;  $RI = E$ ;  $8 \times 15 = 120$  volts.

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