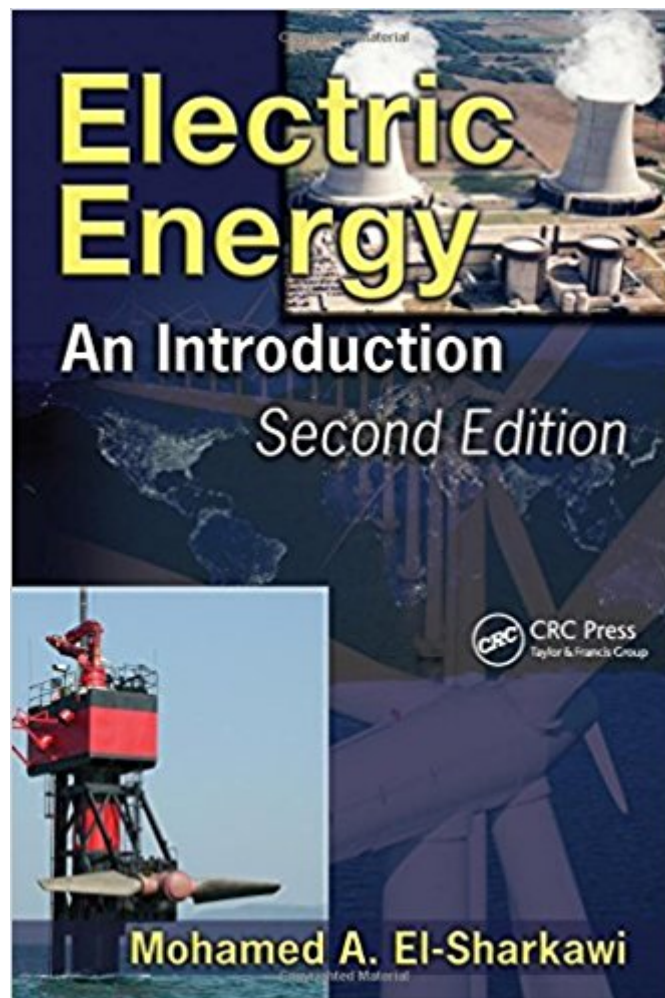




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# Electric Energy: An Introduction, Second Edition (Power Electronics And Applications Series)



## Synopsis

The ongoing search for renewable energy, the societal impact of blackouts, the environmental impact of generating electricity, along with the new ABET criterion have contributed to renewed interest in electric energy as a core subject. Emphasizing modeling, analysis, and real-world issues, this new edition of Electric Energy provides a refreshed overview of this increasingly important field. New in the Second Edition

- Expanded coverage of the mathematical modeling of renewable systems, power electronics, and electric safety
- A chapter on power quality
- An expanded chapter on machines that includes dc machines and single phase motors
- A chapter on future power systems

Along with the standard topics of power electronics and electromechanical conversion, the text also covers energy resources, power plants, environmental impacts of power generation, power system operation, renewable energy, and electrical safety. Most of the topics are related to issues encountered daily in practice, and most of the examples are from real systems and use real data. With a flexible structure and exceptional relevance to real-life issues, Electric Energy, Second Edition brings together all the topics needed to build the broad-based background today's engineers need.

## Book Information

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## Customer Reviews

In summary, I found the book to be a nice introductory course to the discipline of electric energy production, transmission, and distribution. I would recommend it to the undergraduate student beginning to explore the rewarding career path of electrical engineering, and equally so to nontechnical professionals working in the power and energy industry who may wish to gain greater insight into the functioning and operations of the electric power system. I truly enjoyed reading this book.

— Pouyan Pourbeik, IEEE Power & Energy Magazine, Vol. 8, No. 4

University of Washington, Seattle, USA University of West Florida, Pensacola, USA

I'm an electrical engineering student and this textbook was required for an electric power class. Normally, my review on a required engineering text would read "this is like every other textbook I've been required to buy for class", and I think most engineering students would understand what I mean- long, boring, difficult to understand, and full of fluff- a great addition to my "textbooks I had to buy but never read" shelf. However, this textbook is very different. In fact, out of all the required texts I've bought and read over my college career, this is the best college textbook I've ever bought. I only wish every textbook were modeled after this one.

**PROS:-** I REALLY liked the layout for this textbook. The book itself is relatively short, but don't let that fool you- it's packed with concise, useful information. Each chapter is arranged so that it is very simple, interesting to read, and easy to understand.- Most chapters flow very well and apply the theories taught to real life situations. Chapter 9 on Electric Safety did a particularly good job of this- each example illustrated how and why a person/animal gets shocked, the consequences of getting shocked, and the formulas to determine how much damage is done.- Underneath each formula is a list describing each variable in that formula. I have no idea why other textbooks don't do this, but this detail is a HUGE plus in my mind.- The actual text itself is short, but illustrates most technical information or important points through examples. All examples are written right into the text (not as side exercises for you to do later) and are all relevant to the discussion at hand. I particularly enjoyed the examples that illustrate certain points- one example of this was the calculation of how long oil reserves will last - using actual numbers (current oil reserves, amount of oil consumed, etc), they find the answer to be ~40 years. Yes, the author could have just stated that as fact. But because he laid out the full calculation, I completely understand where the number comes from, the significance of the situation, and will most likely remember that figure for quite a few years.

**CONS:-** It does NOT have any answers to in chapter problems in the back of the book. This kills me- after everything else being awesome, no answers to odd or even problems?! Having said that, the examples in the chapter are

extremely similar to the end of chapter problems, so it's easy enough to check your answer against the example to make sure you worked the problem the correct way. Since my professor graded on using the correct method to find the solution rather than actually having the correct answer, not having the

Best book ever for understanding electric energy. You need this for reference and study in sustainable careers. One of the best instructors at the university.

I would give it 5 stars if I could read it on all of my devices. I could not read it on my Windows 8 laptop or on my android devices. It only works on my Kindle e-book reader and my Ipad 3. I have to lug an extra mobile device around just to read my book. I hope that works on their software so that Windows 8 laptops can read more kindle books especially at these prices.

I just finished using this book for my Elect. EGR Class. It was great. The first couple of chapters 1-6 dealt with power:solar, wind, water, geothermal ect. Great illustrations and sample problems. They provided worked through examples and did a good job of NOT skipping too many steps. It focuses on 3phase, transformers, generators ect. GREAT BOOK.My one gripe, and it's why I gave it 4 stars and not 5 would be because they did NOT provide answers to the problems in the back of the book. That's a problem when you want to see if you're correct. You'll rely on the prof for these...or have them worked out in class.Great BOOK. just that one error.Oh yeah, the 1st and second editions are pretty much the same.

Good

Overly detailed on the simple subjects, overly general on the difficult or complex ones.

Met my expectations. If you want a good read on this topic, this book is a good option. :) .

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