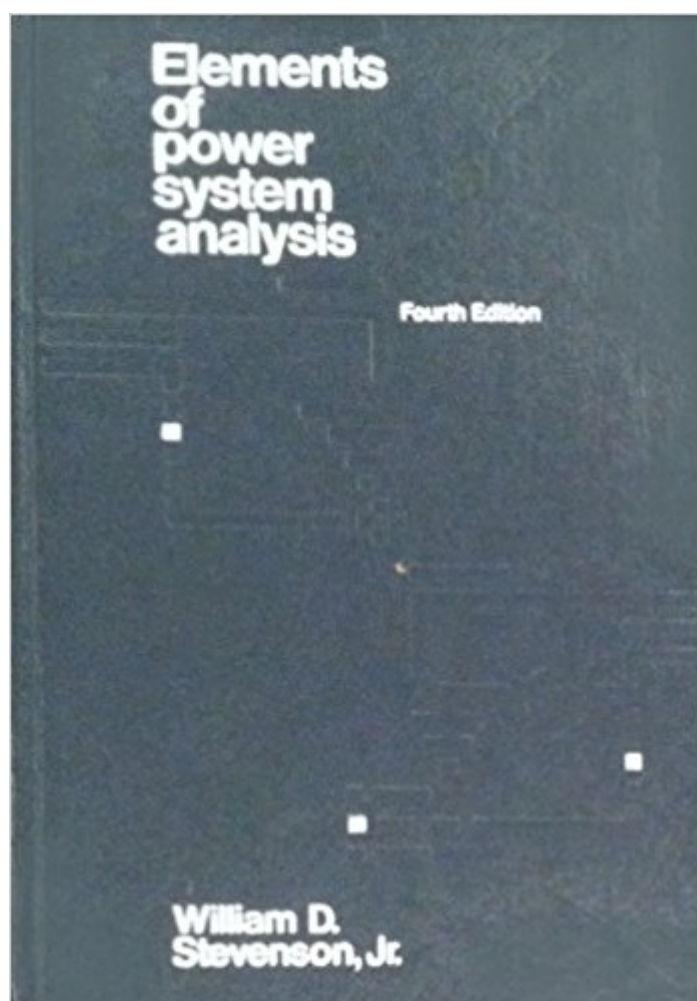


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# Elements Of Power System Analysis (Mcgraw Hill Series In Electrical And Computer Engineering)



## Synopsis

The approach is to develop the thinking process of the student in reaching a sound understanding of a broad range of topics in the power-system area of electrical engineering. Another goal is to promote the student's interest in learning more about the electric-power industry. The objective is not great depth, but the presentation is thorough enough to give the student the basic theory at a level that can be understood by the undergraduate.

## Book Information

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In my EE undergrad program I found that the textbooks were terrible. Confusing, badly written, bad examples, skipping the basics. I finally asked a professor for some other recommendations. This is by far the best power systems book I have looked at. There are many many revisions of it, and eventually another author (Grainger) was added on to Stevenson, but the core of the information

remains the same. The good and bad thing about power is that not that much has changed in the last 60 or 70 years, so even an older textbook is still incredibly relevant. I ditched the textbook we were assigned and pretty much exclusively use this book. Even now at work I still reference this book to review concepts a couple of times a month.

I bought this book to prepare for the PE exam, mainly because of the other favorable reviews by those who were preparing for the exam. I sincerely wish we had used this text back at Rolla, but alas, we did not. This book has the very best explanation of symmetrical components that I have seen. Even though I did not fully grasp the concept back in my college days (> 20 years ago!), Stevenson managed to finally get the point across to me and the concept became ridiculously clear. I am no expert, but I finally understand the theory, and can apply it. And by the way, I did pass on my first attempt. This book was a great reference and it's not physically large, so it was very handy on exam day.

Excellent

A terrific and well written textbook.

This book is the best introduction to electric power systems. It combines the important aspects and formulas and physics required to be a good power systems engineer and is easy to understand. While it is not well versed in today's software, it should be part of the engineer's library. This is my third copy because I have loaned my other two copies to fellow engineers. Myself have noticed today's engineers are well versed in software, but not on the basics of electrical engineering.

Remember the MS engineer that confused the wind tower foundation re-bars with the grounding system of the tower. Not like a Ufer ground. Have it in your library. AMDG

Just a very nice explanation. I have some books and I have discovered the most of them are based in this. It's an old book but the explanation and the electrical principles have remained equal since years. You must have it! If I had this book when I studied I had learned very well, but I haven't that luck I studied with other book based on this a big big mistake. If you are student or if you have a job, you must have it!. If Stevenson were alive I really would like he had written a chapter about harmonics which it is not here.

Chapters 1-7 of Stevenson's Elements, insofar as they went, were poetic descriptions of abstract power system principles. Nonetheless, Stevenson's masterpiece has been improved by the brilliant graphical explications in Grainger's recursion of it. Obviously, Grainger expands importantly on Stevenson with an additional 400 pages. Would that such an expensive text as Grainger simply include the CD with solutions to PROBLEMS, thus providing both equitable distribution of same in classrooms, and, outside the classroom, incentive and positive reinforcement to grapple with problems.

If you're an engineer or student having to deal with power systems in any way, this is the best book for you. I highly recommend this classic text. It is one of the best power systems books I've ever read, and it even includes excellent instruction on power system protection.

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