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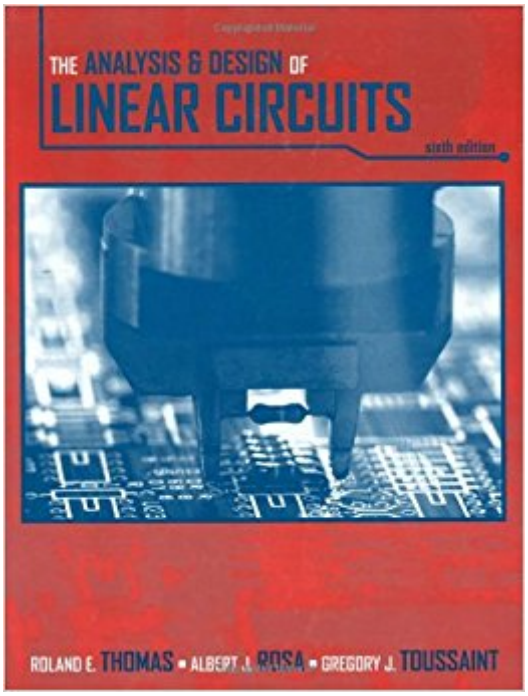
The Analysis And Design Of Linear Circuits



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Synopsis

The Analysis and Design of Linear Circuits, 6eÂ givesÂ the readerÂ the opportunity to not only analyze, but also design and evaluate linear circuits as early as possible. The text's abundance of problems, applications, pedagogical tools, and realistic examples helps engineersÂ develop the skills needed to solve problems, design practical alternatives, and choose the best design from several competing solutions.Â Engineers searching for an accessible introduction to resistance circuits will benefit from this book that emphasizes the early development of engineering judgment.

Book Information

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Average Customer Review: 4.5 out of 5 starsÂ Â See all reviewsÂ (11 customer reviews)

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Customer Reviews

This is not a year one college textbook. This nononsense book takes certain degree of mathematical maturity to quickly master some of the analysis methods, pithy yet reader-friendly. Examples are very well chosen and illustrated.If you are an engineer or a grad student in other disciplines other than EE who wants to pick up circuit fundamentals quickly, this book serves this purpose greatly and succinctly.Highly recommended!

Being an Aerospace engineer at work, but tinkering with circuits at home lead me to this book. As other reviewers said, there is some higher math needed - but ONLY if you want to do AC or signal processing. The first 4 chapters are DC circuits, and were a great review for me. If you're a hobbyist playing with microcontrollers and such, the first 4 chapters will be a great help to you and you don't need higher math for these.But, if you want to dive into signal processing, you do need to know

calculus (integrals and differentials) and you better be pretty familiar with trig. I'm learning on my own (no class or teacher) so I've been going through chapter by chapter and actually doing the examples plus the problems at the end of each chapter.So here's my gripe - Because I'm doing this on my own, I work out each and every example and compare with the book, and I've found many errors. I'm sure you're thinking that I'm wrong and the book is right, and that's what I assumed at first. So I would take the book's answers and work backwards - which allowed me to see where the answers were wrong. Many times the author flips a sign and adds/subtracts the wrong value. The worst problems are where trig identities were incorrectly applied and the answers are way off. I've also been checking with programs like spice, and I could be wrong, but remember, I am a rocket scientist!So if you're going to use this book, make sure you have someone who can check your answers - if you're in a class then no problem.Last but not least, I'm sure you think I'm crazy to do calculus and circuits in my spare time - I think this stuff is cool. Don't hate `cause the brains are good!

I am using this book for my studies on passive circuit analysis in the time domain, frequency domain & Laplace domain, and I have to say that the concepts are very well explained, with many worked examples chapter by chapter.Money well spent.

I just got it a few days ago so I can't give it a 5; it does seems to cover the material quite well. When I skimmed through it I noticed that it requires you to know calculus, so this is not a book you could use with just algerbra or trig (except for a few chapters.)

The 6th edition has more or less the same problems and concepts as the 7th edition at a faction of the cost. Would recommend getting this version over the newer one.

This book was actually pretty good. It was well written with good examples. I think I preferred this over our other text book that was also required.

Everything transitioned as it should have. Everything went as expected and arrived on time. I would recommend this method to anyone.

bought it for my son.

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