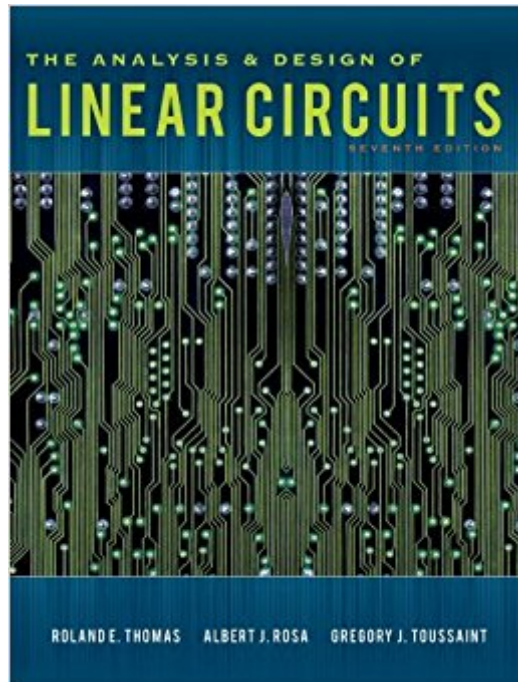




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The Analysis And Design Of Linear Circuits, 7th Edition



Synopsis

As an introduction to the analysis, design, and evaluation of Electric Circuits, this text focuses on developing the students design intuition and emphasizes the use of computers to assist in design and evaluation. Early introduction to circuit design motivates the student to create circuit solutions and optimize designs based on real-world constraints. Thomas/Rosa/Toussaint covers three major blocks in sixteen chapters. Chapters 1-4 cover dc circuits including dependent sources, the ideal Op Amp, and interface design. Chapters 5-12 cover ac circuits using both the traditional Phasor approach and a more efficient Laplace-early approach to include a signals chapter and transient and frequency responses in both the time and frequency domains. The last block deals with applications and extensions of the first two blocks covering Fourier Analysis (Ch 13), multipole active filters (Ch 14), coupled coils and transformers (Ch 15), ac power systems (Ch 16), and two-port networks (Ch 17). The text has over 350 worked examples followed by 422 exercises. Over a thousand homework problems ranging from elementary to complex are structured around a sequence of carefully defined learning objectives based on Blooms Taxonomy. This edition emphasizes computer-based analysis and design by expanding the number of examples, exercises, and problems using software for mathematical computation and circuit simulation.

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Customer Reviews

This book is very challenging, and yet very down to earth. The example questions, as well as the questions at the end of the chapter are well thought out and very engaging. The author of this masterpiece provides a very solid foundation and skill set, that should more than provide a student the ability to solve most circuit analysis problems. I highly recommend this book for the engineering student, who wants a well rounded understanding, and at the same time reinforces the math skills that are needed in solving and analysing complex waveforms and electronic circuits.

This book has amazing examples and is very good at teaching the concept of Linear Circuits. I found it very useful for my class. Solutions manual was very helpful as well on Chegg, at least for the chapters they actually had examples on.

good text book on linear circuits

good.

Good book. Some chapters are hard to read but overall the book is good.

This is definitely the best book for circuit analysis. I have several books on this topic and use it often. These authors do a very good job presenting the material and explaining it.

This textbook is absolutely useless. If you are required by your course to get this, you don't have a choice, but understand that there is NO organization to the important chapter information. Looking to use this as a compact reference once the course is over? Yeah that is not going to happen unless you have taken impeccable notes. Like most modern textbooks the relevant information is spread thinly between gratuitous use of examples, pictures and oceans of text. Also, there are no chapter summaries. Do yourself a favor and buy a vintage electronics textbook, it will be cheaper and more helpful.

Rather difficult to understand but required and it was useful for the class.

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