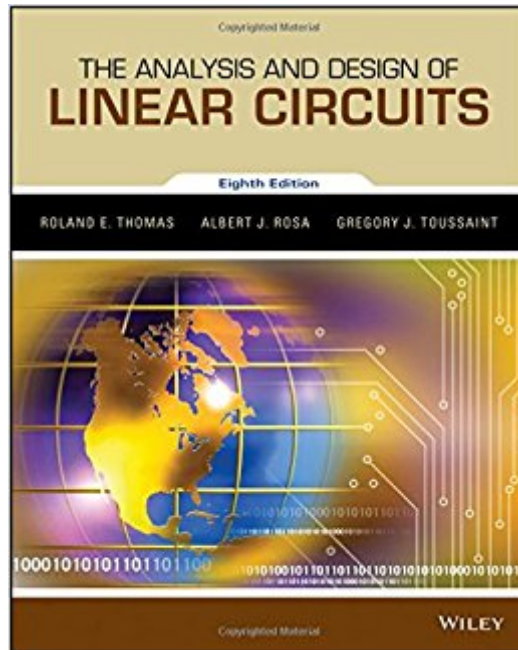


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# The Analysis And Design Of Linear Circuits, Binder Ready Version



## Synopsis

The Analysis and Design of Linear Circuits, 8th Edition provides an introduction to the analysis, design, and evaluation of electric circuits, focusing on developing the learners design intuition. The text 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. This text is an unbound, three hole punched version.

## Book Information

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## Customer Reviews

This is the first basic circuits analysis textbook that causes students to think about and use engineering design for problem solving. No other text shows students a realistic, practical approach to circuit design. The integration of design concepts throughout the text will prove especially valuable in helping instructors meet the new ABET Engineering Design criteria. --This text refers to an out of print or unavailable edition of this title.

Thomas and Rosa's Fourth Edition of The Analysis and Design of Linear Circuits gives you 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 help you develop skills needed to solve problems, design practical alternatives, and choose the best design from several competing solutions. This Laplace Early Versions of the Fourth Edition introduces Laplace immediately after the classical treatment of circuit differential equations, rather than after phasors. This innovative presentation helps you develop real understanding of transient

and steady-state responses more quickly than a traditional phasor-first approach, and better prepares you to handle the profusion of transforms in subsequent courses. Phasors are then introduced as a special case of Laplace when they are easier to learn and understand.

Â HIGHLIGHTS OF THE FOURTH EDITION New application examples relating to electronics, computer engineering, signal processing, and instrumentation/bioengineering provide a broader scope. An early emphasis on design and analysis reinforces your understanding of circuit fundamentals. Early Op-Amp coverage allows you to design practical circuits that you can actually build and use. A separate chapter on waveforms and signal characteristics introduces all the important input and output signals encountered in linear circuits. Examples of computer-aided circuit analysis using Excel®, MATLAB®, Mathcad®, Electronics Workbench®, and Pspice® examples have been revised and updated to Orcad Release 9.2. Carefully designed learning objectives supported with homework problems and cross-referenced to in-chapter examples enable you to assess your mastery of the material. Chapter-length appendices on Fourier transforms and two-part networks, complete with examples and problems, are available on the Web. --This text refers to an out of print or unavailable edition of this title.

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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