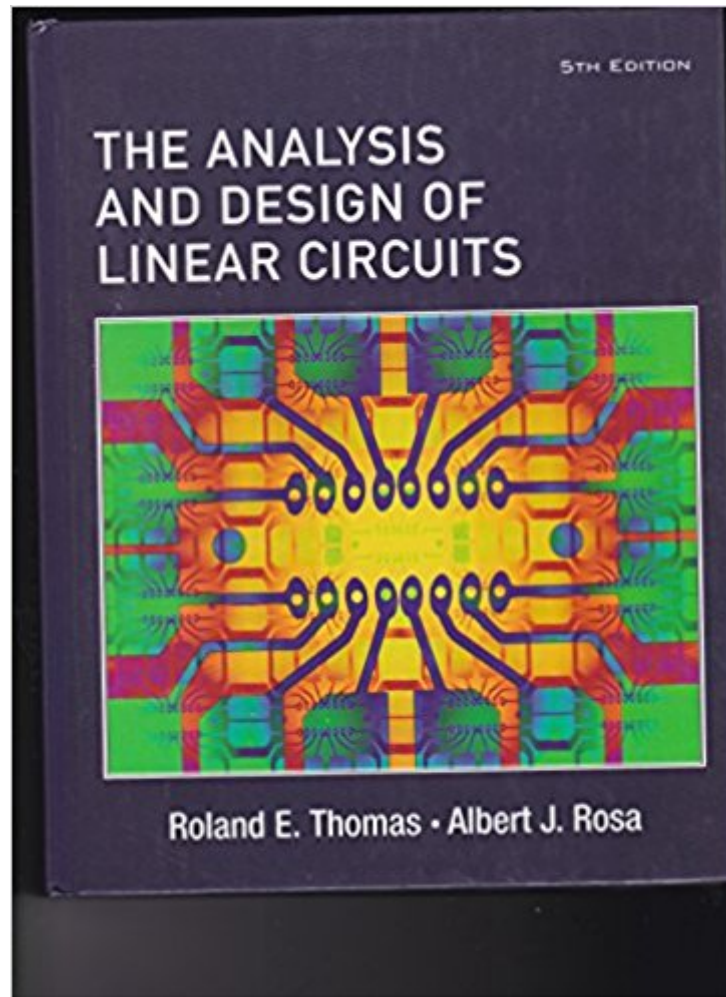


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# The Analysis And Design Of Linear Circuits, Student Solutions Manual



## Synopsis

Now revised with a stronger emphasis on applications and more problems, this new Fourth Edition gives readers the opportunity to analyze, design, and evaluate linear circuits right from the start. The book's abundance of design examples, problems, and applications, promote creative skills and show how to choose the best design from several competing solutions. \* Emphasis on circuit design. Integrated treatment of analysis and design enhances students understanding of circuit fundamentals. The text gets students involved in design early, so they can recognize how their newly acquired knowledge can be applied to practical situations. \* Early introduction to the Op-Amp. The authors introduce students to the ideal Op-Amp early and often, allowing you to teach practical designs that students can actually build and use.

## Book Information

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## Customer Reviews

Chapter 1 introduces basic concepts in electricity such as charge, voltage, current, resistance and Ohms law. Chapter 2 then delves into basic DC circuit analysis of series and parallel circuits using KVL and KCL and the concepts of source transformation and circuit reduction. Chapter 3 gives you more techniques to solve for difficult circuit analysis problems based on node and mesh analysis. Thevenin and Norton equivalent circuits are introduced. Chapter 4 - so far the book has dealt with passive circuits. The authors now turn to active circuits. Transistors and OP amps are introduced with 4 basic signalling functions namely inverting/noninverting amps, diff amp and inverting summer. These are combined in different ways to give different signal processing properties. Analysis of op

amp circuits is presented using nodal analysis techniques. Chapter 5- now the authors deal with signal waveforms in particular step functions, exponential waveforms and sinusoidal waveforms. Chapter 6 introduces the capacitor and inductor along with their I-V relationships and parallel and series reductions. These are then applied to active circuits and we obtain two other basic op amp circuits namely the integrator and differentiator. Chapter 7 deals with 1st and 2nd order circuits so named since they are described by first and second order diff eq. RC and RL circuits are discussed followed by step and sinusoidal responses of 1st order circuits. RLC series and parallel circuits are next followed by step and sinusoidal responses of 2nd order circuits. Chapter 8 is of a mathematical nature dealing with the use of phasors and sinusoidal steady state response.

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