



# Circuit Analysis For Dummies

By John Santiago



## Circuit Analysis For Dummies By John Santiago

### Circuits overloaded from electric circuit analysis?

Many universities require that students pursuing a degree in electrical or computer engineering take an Electric Circuit Analysis course to determine who will "make the cut" and continue in the degree program. *Circuit Analysis For Dummies* will help these students to better understand electric circuit analysis by presenting the information in an effective and straightforward manner.

*Circuit Analysis For Dummies* gives you clear-cut information about the topics covered in an electric circuit analysis courses to help further your understanding of the subject. By covering topics such as resistive circuits, Kirchhoff's laws, equivalent sub-circuits, and energy storage, this book distinguishes itself as the perfect aid for any student taking a circuit analysis course.

- Tracks to a typical electric circuit analysis course
- Serves as an excellent supplement to your circuit analysis text
- Helps you score high on exam day

Whether you're pursuing a degree in electrical or computer engineering or are simply interested in circuit analysis, you can enhance you knowledge of the subject with *Circuit Analysis For Dummies*.

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## Editorial Review

From the Back Cover

### *Learn to:*

- Grasp resistive circuits, Kirchhoff's laws, equivalent subcircuits, and more
- Supplement your classroom learning
- Score high in your Circuit Analysis course

### **Circuits overloaded from electrical circuit analysis?**

*Circuit Analysis For Dummies* gives you clear-cut information about the topics covered in a typical circuit analysis course. From resistive circuits and Kirchhoff's laws to equivalent subcircuits and energy storage, this friendly, hands-on guide is the perfect aid for making sense of the topics that may be confusing you in your circuit analysis course. So what are you waiting for?

- **Circuit Analysis 101** — get the lowdown on the engineering lingo, concepts, and techniques necessary to analyze circuits
- **Simplify it** — understand the general analytical methods that help you simplify more complicated circuits to a manageable level
- **Get amped** — recognize how to work with transistors as current amplifiers and op-amps as voltage amplifiers
- **Ch-ch-changes** — deal with changing signals and circuits that have passive energy storage devices (such as inductors and capacitors)
- **Be a convert** — use phasor and Laplace techniques to convert a calculus-based problem into one requiring only algebra

### **Open the book and find:**

- The keys to reading circuit schematics
- How to apply Ohm's law and Kirchhoff's laws when analyzing circuits
- The steps for transforming sources
- Mesh current analysis, superposition, and other useful analytical methods
- The ins and outs of op-amp circuits
- Approaches for analyzing first- and second-order circuits
- How to create filters by connecting resistors, inductors, and capacitors

About the Author

**John M. Santiago Jr., PhD**, served in the United States Air Force (USAF) for 26 years. During that time, he held a variety of leadership positions in technical program management, acquisition development, and operation research support. While assigned in Europe, he spearheaded more than 40 international scientific and engineering conferences/workshops.

## **Users Review**

### **From reader reviews:**

#### **Maria Asbury:**

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