



# Linear Circuit Analysis: Time Domain, Phasor, and Laplace Transform Approaches (The Oxford Series in Electrical and Computer Engineering)

By Raymond A. DeCarlo, Pen-Min Lin

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**Linear Circuit Analysis: Time Domain, Phasor, and Laplace Transform Approaches (The Oxford Series in Electrical and Computer Engineering)** By Raymond A. DeCarlo, Pen-Min Lin

Designed for an introductory electric circuits course, the second edition of *Linear Circuit Analysis* provides authoritative and in-depth yet highly accessible coverage of traditional linear circuit analysis topics--both concepts and computation.

**This second edition represents an exhaustive revision, featuring:**

- Complete integration and extensive use of MATLAB® in solving problems and examples
- Frequent use of SPICE, especially with op amp circuits
- Twenty percent more examples and numerous additional illustrations
- Approximately three times as many exercises immediately following the examples
- More than 1000 end-of-chapter problems (approximately 25% more than the first edition, categorized and graded from the simpler to the more complex; this edition includes many new basic problems)
- Excellent pedagogical elements including case studies, motivational real-world illustrations, and key terms and concepts

**A CD in each book! The CD contains:**

- **Complete Solutions for Students to 10% of the Homework Exercises.** These solutions have been solved step-by-step by the authors and are installed on the disk in an Adobe Acrobat® file.

- **Additional MATLAB® Problems.** Designed to challenge students and extend their understanding of software tools, these complex MATLAB problems are contained on the CD in an Adobe Acrobat file. Solutions are available at [www.decarlolin.org](http://www.decarlolin.org) under "MATLAB Solutions."
- **Laboratory Manual.** A 214-page laboratory manual is resident on the in-text CD in Adobe Acrobat. It includes course objectives, course requirements, laboratory safety instructions, fifteen experiments, and nine useful appendices.
- **A FREE Copy of the Multisim® 2001 Textbook Edition (SPICE Simulator).** This powerful simulation software contains a fully functional version of Multisim® 2001 and includes a 1500 component database, 6 virtual instruments, 6 analyses, the Simplified Version Interface, and Save and Print capabilities. It creates and saves new circuits and will read and simulate any circuit created in the Multisim® 2001 Education or Student Editions.

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**SPICE, Second Edition** by Gordon Roberts and Adel Sedra (0-19-510842-6) features over 100 examples and numerous exercises for computer-aided analysis of microelectronic circuits.

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