

Engineering Circuit Analysis, 9e

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Detailed List of New Features

Updated Connect with SmartBook uses end-of-chapter content from Engineering Circuit Analysis, 9e. Connect is a powerful, web-based assignment management system that makes creating and grading assignments easy for instructors and learning convenient for students. It saves time and makes learning for students accessible anytime, anywhere. With Connect, instructors can easily manage assignments, grading, progress, and students receive instant feedback from assignments and practice problems.

Over 1000 new and revised end-of-chapter problems.

- Dedicated coverage of the concept of energy and calculations related to circuit power consumption and energy storage in batteries.
- Updated transient analysis coverage, including an intuitive explanation of energy transfer in RLC circuits.
- Revised coverage of frequency response follows a more natural progression beginning with singular poles/zeros and then progressing to resonant behavior.
- Updates to the Practical Application feature helps students connect material in each chapter to broader concepts in engineering. Topics include distortion in amplifiers, circuits to measure an electrocardiogram, automated external defibrillators, practical aspects of grounding, the relationship of poles to stability, resistivity, and the memristor, sometimes called "the missing element."

Retained Features

Revised and often completely new Practical Applications. These sections have been added to the eighth edition, and the Practical Applications boxes connect material to real-world situations and tie in concepts of design and problem-solving. PSpice and MATLAB coverage throughout the book. Problem-solving techniques are introduced in Chapter One to prepare students for developing a methodical approach to circuit analysis. The step-by-step approach is used in each subsequent chapter, with a carefully selected example in each chapter re-starting the problem-solving methodology as a reminder to the students. Instructor Materials are available through Connect and includes COSMOS.

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