



Basic Engineering Circuit Analysis

By J. David Irwin, R. Mark Nelms

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Irwin's *Basic Engineering Circuit Analysis* has built a solid reputation for its highly accessible presentation, clear explanations, and extensive array of helpful learning aids. Now in a new Eighth Edition, this highly-accessible book has been fine-tuned and revised, making it more effective and even easier to use. It covers such topics as resistive circuits, nodal and loop analysis techniques, capacitance and inductance, AC steady-state analysis, polyphase circuits, the Laplace transform, two-port networks, and much more.

For over twenty years, Irwin has provided readers with a straightforward examination of the basics of circuit analysis, including:

- Using real-world examples to demonstrate the usefulness of the material.
- Integrating MATLAB throughout the book and includes special icons to identify sections where CAD tools are used and discussed.
- Offering expanded and redesigned Problem-Solving Strategies sections to improve clarity.
- A new chapter on Op-Amps that gives readers a deeper explanation of theory.
- A revised pedagogical structure to enhance learning.

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Editorial Review

From the Publisher

Irwin uses an effective learn-by-doing approach to develop a thorough understanding of the fundamentals of circuit analysis and their application to real-world problems. The text presents material in as clear and detailed a manner as possible, combining thorough explanations and worked examples, drill problems and answers. The Fifth Edition has been streamlined to make room for the many new real-world examples and problems.

From the Back Cover

See the solution with Circuit Solutions by JustAsk!

Every new copy of the Eighth Edition of Irwin's *Basic Engineering Circuit Analysis* offers free limited-time access to Circuit Solutions by JustAsk! This innovative web-based tutorial invites you to see the solution as it walks you step-by-step through select problems from the text, while highlighting the important concepts needed to solve each problem. You'll save time in your studies and build valuable analysis skills that you can rely on throughout your professional career.

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