DESCRIPTION

The Analysis and Design of Linear Circuits, 8th Edition provides an introduction to the analysis, design, and evaluation of electric circuits, focusing on developing the learners design intuition. The text emphasizes the use of computers to assist in design and evaluation. Early introduction to circuit design motivates the student to create circuit solutions and optimize designs based on real-world constraints.

ABOUT THE AUTHOR


RELATED RESOURCES

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NEW TO EDITION

• Additional design and evaluation examples, exercises, homework problems, and real-world applications

• More skill-level examples, exercises, and problems that can help develop the student’s confidence in mastering the different objectives.

• New one-concept examples and exercises have been added to key sections. In addition, numerous problems were added in support of each learning objective.

• Improved chapters on frequency response (Chapter 12) and active filters (Chapter 14).

• Software use throughout the text has been significantly increased and strengthened to include many new MATLAB, Multisim, and Excel examples to help practice using the software.

FEATURES

• The authors are committed to providing a modern, different, and innovative approach to teaching analysis, design, and design evaluation of electric circuits. The text is designed so that it can be used as a Laplace Early version as well as a traditional Phasor First version.

• The text is structured around a sequence of carefully defined cognitive learning objectives and related evaluation tools based on Bloom’s Taxonomy of Educational Objectives.

• Interweaving of analysis and design topics reinforces a student’s grasp of circuit analysis fundamentals. Students are motivated to apply their newly acquired analysis tools to practical situations. Using computer simulation software to verify their designs gives students an early degree of confidence that they have actually created a design that meets stated specifications.

• Early introduction and integrated treatment of the OP AMP.

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