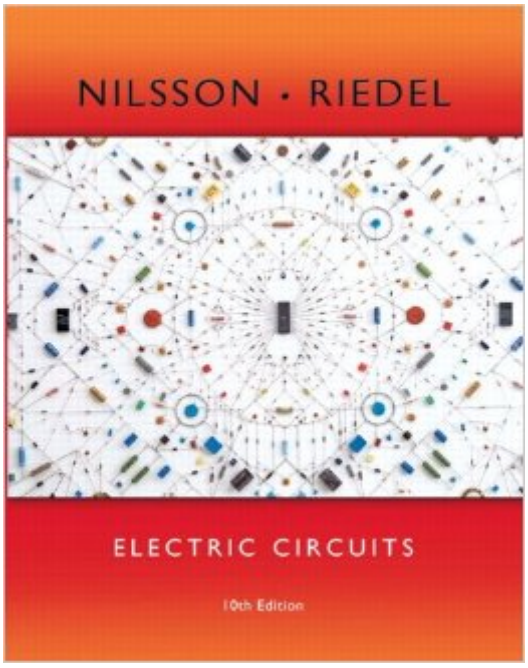
Electric Circuits (10th Edition)



Synopsis

Electric Circuits, Tenth Edition, is designed for use in a one or two-semester Introductory Circuit Analysis or Circuit Theory Course taught in Electrical or Computer Engineering Departments. This title is also suitable for readers seeking an introduction to electric circuits. Electric Circuits is the most widely used introductory circuits textbook of the past 25 years. As this book has evolved to meet the changing learning styles of students, the underlying teaching approaches and philosophies remain unchanged. MasteringEngineering for Electric Circuits is a total learning package that is designed to improve results through personalized learning. This innovative online program emulates the instructorâ ™s officeâ “hour environment, guiding students through engineering concepts from Electric Circuits with self-paced individualized coaching. Teaching and Learning Experience This program will provide a better teaching and learning experienceâ ”for you and your students. Personalize Learning with Individualized Coaching: MasteringEngineering provides students with wrong-answer specific feedback and hints as they work through tutorial homework problems. Emphasize the Relationship between Conceptual Understanding and Problem Solving Approaches: Chapter Problems and Practical Perspectives illustrate how the generalized techniques presented in a first-year circuit analysis course relate to problems faced by practicing engineers. Build an Understanding of Concepts and Ideas Explicitly in Terms of Previous Learning: Assessment Problems and Fundamental Equations and Concepts help students focus on the key principles in electric circuits. Provide Students with a Strong Foundation of Engineering Practices: Computer tools, examples, and supplementary workbooks assist students in the learning process. Note: You are purchasing a standalone product; MasteringEngineering does not come packaged with this content. If you would like to purchase both the physical text and MasteringEngineering search for ISBN-10: 0133875903/ISBN-13: 9780133875904. That package includes ISBN-10: 0133760030/ISBN-13: 9780133760033 and ISBN-10: 013380173X /ISBN-13: 9780133801736. MasteringEngineering is not a self-paced technology and should only be purchased when required by an instructor.

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Customer Reviews

Background: I've used this text for 5 years now, beginning with the 7th Ed, and now probably moving to the 9th. Before my teaching career I was a circuit designer for HP for about 12 years. I teach at a community college, and we use this text because most of the universities to which my students transfer use it. I've never had a student complain about this text, either personally or in a student evaluation.The good:I think the text is well-written, the explanations are clear and concise and at exactly the level that sophomore EE/ECE students need. The examples are well-chosen and sufficient in number to effectively present the fundamental concepts.What could be improved:1. More general problems are needed that require the student to solve the circuits using generic components (R, L, C) instead of giving numeric values for all components. The purely numeric approach leads to a "sea of numbers" plug-and-chug solution that has little meaning to the student and even less value in terms of understanding circuit behaviour. Students need to get used to working their solutions into the standard algebraic forms that provide insight into the behaviour of the circut. (I have designed my labs to make up for this.)2. The order of the topics assumes the student is taking their first course in differential equations concurrently, and so postpones the introduction of the LaPlace transform until near the end of the semester. Too much time is spent solving 1st and 2nd order linear, constant coefficient ODEs by methods engineers will never use again. This makes LaPlace methods look like an afterthought, when in fact it is how EEs actually work in the field.All in all, I view this book as a very positive text, and will probably continue to use it.

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