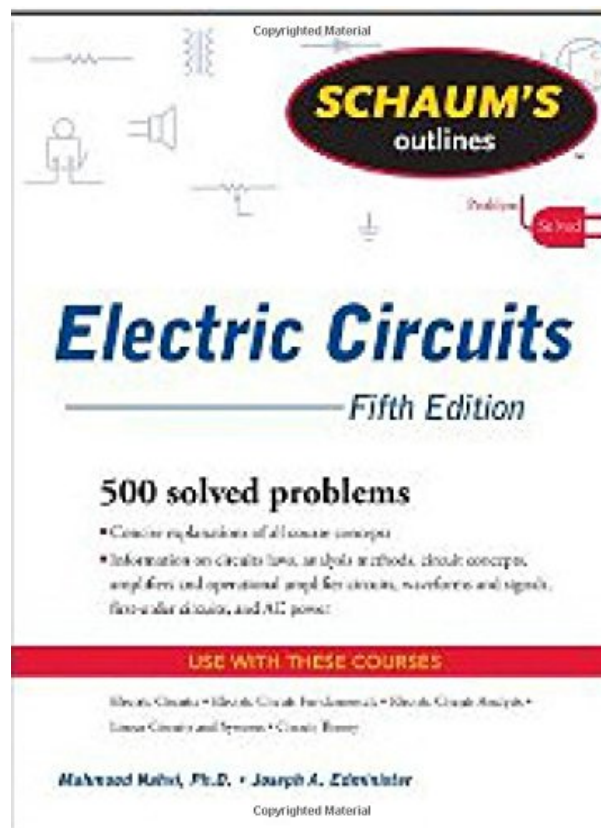
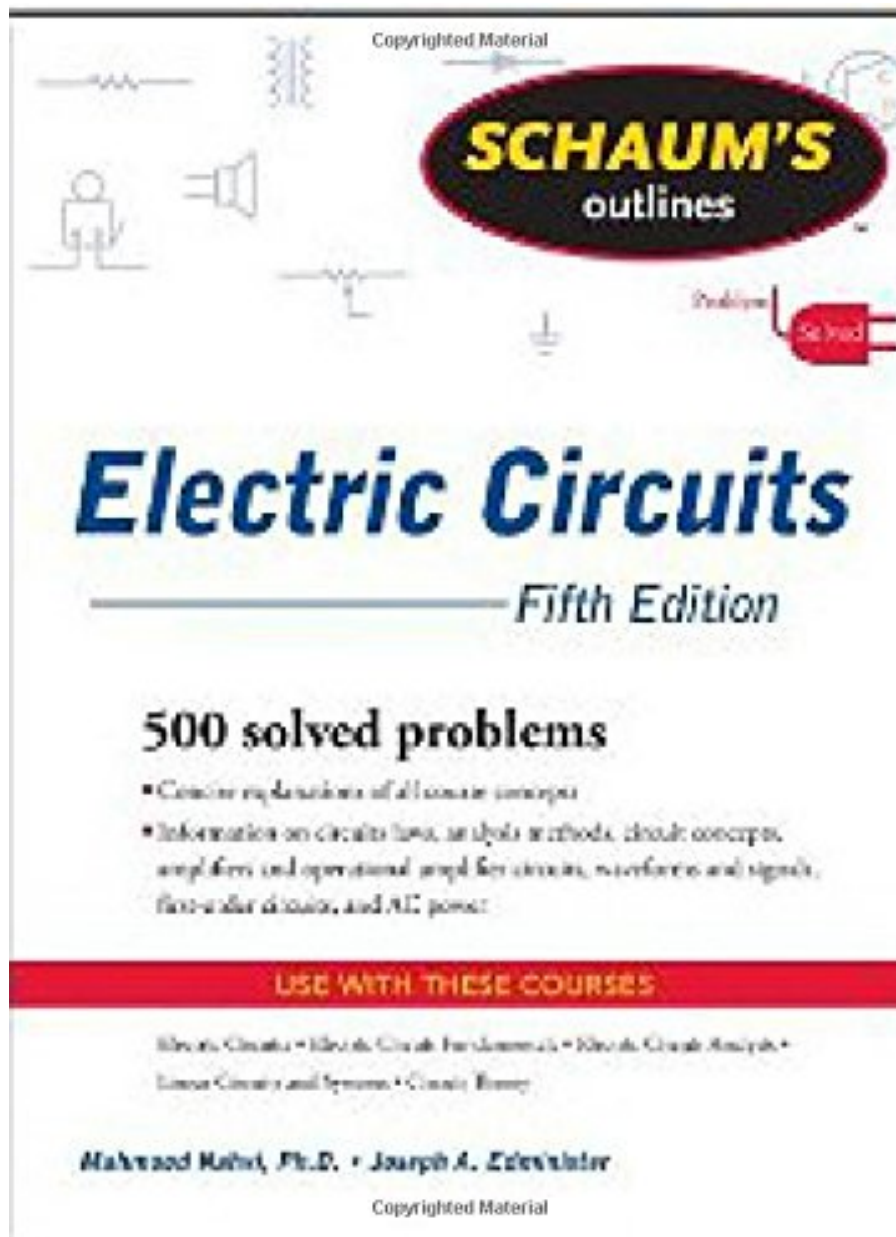


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Excellent as Textbook

By Amazon Customer

I have thoroughly read a few introductory textbooks on electrical engineering, but none of them really comes close to Schaums Electric Circuits in terms of helpfulness or clarity. This book can be used as an

independent textbook because of the clarity of the presentation and the completeness of the material. Great attention has been paid to signs and polarities in the circuits, unlike some other textbooks which are sometimes frustratingly vague about polarities in their circuit explanations. As a result, some subtle things have been clarified for me, e.g. about transformers. The solved problems are especially helpful because some of them develop the theory further. The attention to precision, as well as its helpful intuitive explanations and a good selection of problems, makes this book a best buy. After buying this book, I no longer need one or two other bestselling textbooks, whose titles I would prefer not to mention. Even now, as a full-time electrical engineer, I keep on referring to this most helpful book.

16 of 17 people found the following review helpful.

Excellent supplemental textbook on circuit analysis and design topics

By calvinme

This is an excellent study guide for electrical engineering students that will serve them well in their two-semester DC circuits sequence, linear circuits, electronic circuit design sequence, and power circuits. It is another one of those Schaum's outlines that is clear and complete enough to double as a textbook on the topic of circuit analysis and design. It starts out defining basic electric circuit concepts and terms such as potential, charge, current, resistance, capacitance, and inductance. It then moves on to circuit laws and then circuit analysis methods. It then explains the amplifier model in terms of components that have already been defined, and from there describes the operational amplifier and shows how to design using this device. The chapter on waveforms and signals is an excellent one, and is a topic often overlooked and shortchanged in most electrical engineering textbooks. The chapters on first-order and higher-order circuits do an excellent job of venturing into the world of linear RLC circuits and shows how to use calculus and differential equations to solve for the voltage and current equations of these types of circuits. Included also are more direct methods of analysis including complex frequency and pole-zero plots. The next major topic to be broached is that of analysis and design of power circuits. This is an often ignored subject in the electrical engineering curriculum, and the two chapters are good foundations on the topic. Besides just explaining polyphase power circuits, the outline actually takes the time to explain why such circuits are desirable when power generation is the goal. The next three chapters do some clean up on miscellaneous circuit analysis and design topics - frequency response, two-port networks and their characteristics, and mutual inductance and transformers, which is the basis of courses on electromechanical machines. The chapter on mutual inductance is the weakest chapter in the book, with less explanation than in the rest of the outline. There is a good chapter on using the industry standard Spice and PSpice software for circuit design. The final two chapters are applied chapters on the Laplace and Fourier transforms and their use in circuit analysis and design. For those whose basic mathematics may be rusty, the appendices cover basic matrix algebra and the mathematics of complex numbers.

I used the first edition of this outline in the late 70's to help iron out concepts that were not clearly presented in my undergraduate textbooks. I kept it around over the years to serve as a reference. I just recently upgraded to the current fourth edition, and the subject matter and organization of material has changed over the years but not the high quality of the content. I highly recommend this outline to undergraduate electrical engineering students who want a high quality supplemental textbook that will serve them from their sophomore year until graduation. One reviewer lamented that there were quite a few errors in the solved problem sections. However, this review was very old - 1999 I believe - and was written before this current fourth edition was written. I have not found any errors in the solutions so far, so apparently this latest edition has cleared up that past problem.

20 of 22 people found the following review helpful.

This book is a "keeper".

By riclyons@ix.netcom.com

I bought Prof. Edminister's earlier Electric Circuits book when I took his class in college over 20 years ago. I

learned far more from his book than any other book on electric circuits. This book belongs on the bookshelf of every practicing electrical engineer. I've referred to Edminister's book more often than any other engineering book I own. The clear exposition and the terrific depth of solved example problems make this book a "keeper". -Rick Lyons- author of "Understanding Digital Signal Processing"

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