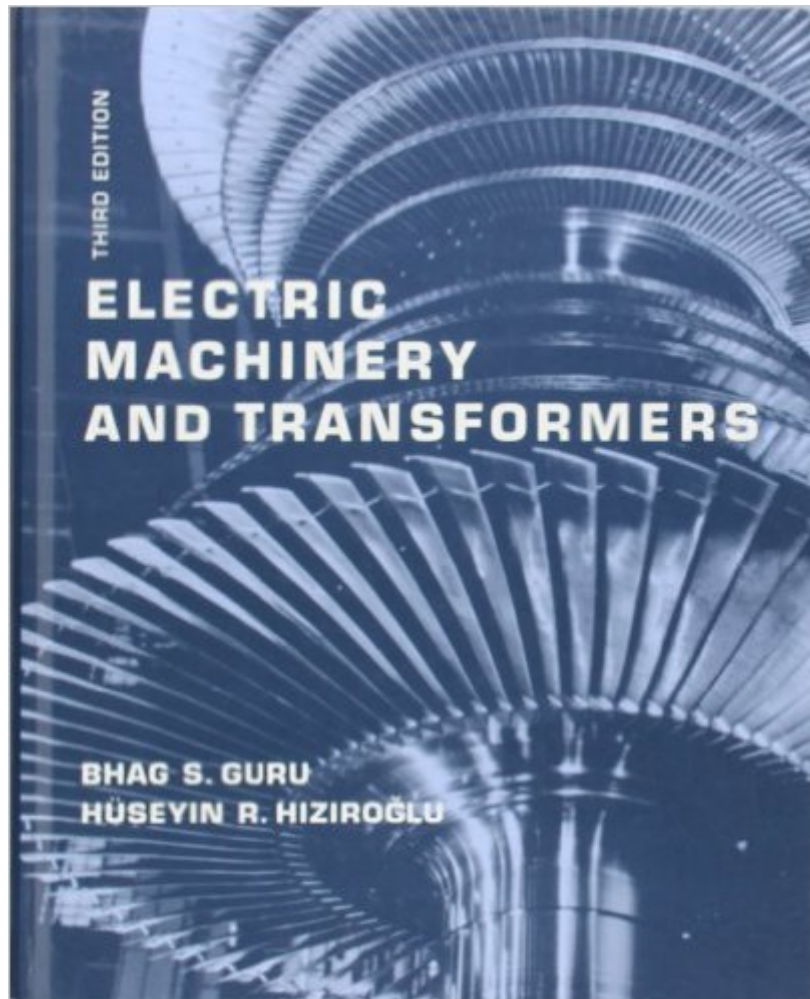


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Electric Machinery And Transformers (The Oxford Series In Electrical And Computer Engineering)



Synopsis

Designed for junior- and senior-level courses in electromechanical energy conversion, *Electric Machinery and Transformers, 3/e*, continues the strong pedagogical tradition established by its successful previous editions. It begins with a review of the fundamentals of circuit theory and electromagnetics and then introduces the concept of electromechanical energy conversion. The text not only provides a systematic development of a model for each electric machine based upon established principles and basic laws, but also introduces students to applications and advanced topics. It also includes information on the construction of each electric machine. *Electric Machinery and Transformers, 3/e*, enhances student learning of the basic operating principles of electric machines by using numerous supporting examples, review questions, illustrations, exercises, and chapter summaries. It encourages intuitive reasoning for problem-solving over the rote memorization of equations and procedures. This third edition covers the following main topics: principles of electromechanical energy conversion; transformers; direct-current generators and motors; synchronous generators and motors; polyphase induction motors and single-phase motors; the dynamics of electric machines; and special-purpose machines.

Book Information

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Customer Reviews

This book is an absolute and crazy mess. It can be so difficult to read and to solve the exercises. I really don't understand what it is about this book that makes it so bad. Maybe it lacked a lot of

information and examples demonstrating the ideas and how to apply the concepts. This was certainly not useful for my Electromechanical systems class.

This book is absolute garbage. Outside of a few examples in each chapter, you are literally given nothing to assist you with any further questions. No answers, no solutions, and no outside sources such as Cramster to check your work with. I don't know about other students, but I sure as hell learn by repetition, and this book will give you none of it. Do one slightly relevant example compared to the exercises and hope for the best. You'll never know if you're right or wrong. Great way to learn!

This book is terrible. The writing is rather poor, making it difficult to understand. Additionally, not every equation is derived for you and as a result the summary will sometimes contain equations that were never derived. There are also relatively few examples, and they often skip steps. Finally, there is no solutions manual to this book readily available, making it utterly impossible to know if you're doing them right, much less check your answer.

There are NO answers to any of the exercises. Not at the back of the book, no solution manual exists, not on cramster. In my opinion, that makes it almost useless, as there's no way to know if you're doing the work correctly.

This review applies to the 2nd edition. I'm not an electrical engineer; I bought this book to get a better understanding of how electromagnetic equipment operates. The book is very approachable in that it does not utilize advanced mathematics (understanding basic algebra, trig, and some calculus is sufficient to understand most of the book). A reader with a good understanding of electricity (including impedance in AC circuits) and magnetism can learn quite a bit about motors, generators, and transformers from this book. Don't know how a professional engineer/educator would rate this book. If your main goal is better understanding of these types of devices, I'd highly recommend this book in used form - new is very expensive.

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