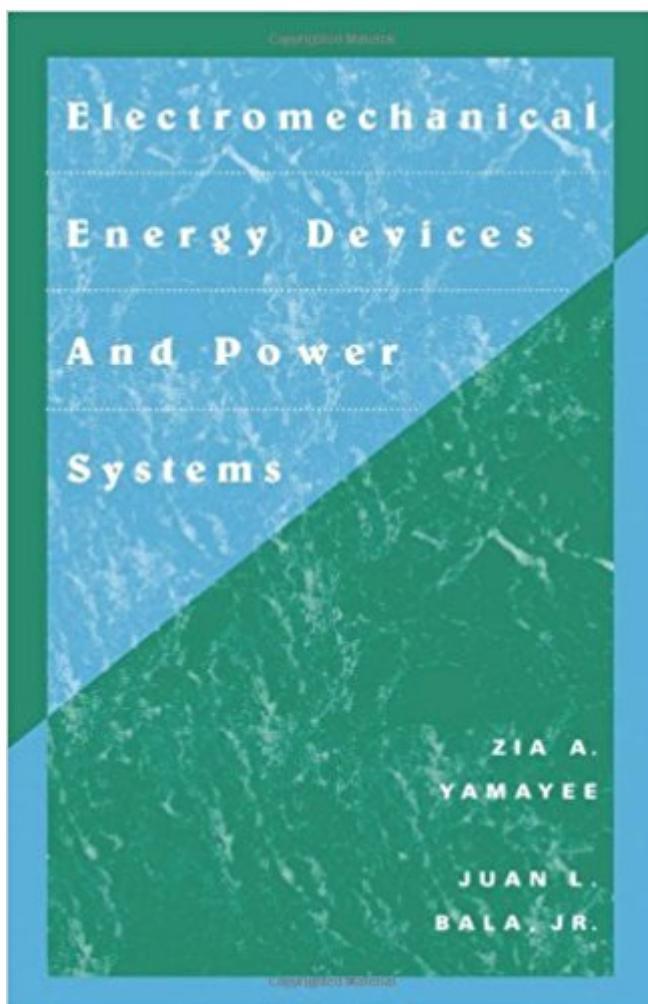


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# Electromechanical Energy Devices And Power Systems



## **Synopsis**

A thorough and understandable treatment of the topic, it introduces different energy sources and various electric energy conversion techniques. Presents an overview of the electric power system and its components. Reviews circuit and power concepts in electrical circuits. Covers magnetic circuits and transformers, fundamentals of rotating machines, theory and application of three-phase and single-phase induction motors, different power flow solution methods, the abnormal operating conditions of power systems including fault studies, system protection and power system stability. Contains scores of problems, examples, illustrations and diagrams.

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A thorough and understandable treatment of the topic, it introduces different energy sources and various electric energy conversion techniques. Presents an overview of the electric power system and its components. Reviews circuit and power concepts in electrical circuits. Covers magnetic circuits and transformers, fundamentals of rotating machines, theory and application of three-phase and single-phase induction motors, different power flow solution methods, the abnormal operating conditions of power systems including fault studies, system protection and power system stability. Contains scores of problems, examples, illustrations and diagrams.

This book is really good and shows a tons of example that you can follow through. The only complain is that have not solutions for the exercises.

I don't even remember ordering this text book or what class it was for yikes!

1. This is a textbook for 3rd year electrical engineering students. Most people who read this book HAVE TO read it because it is a required text. The classic captive audience.2. The author does not skip any more steps in his (her?) math derivations than other, similar books I have had to use. You're a 3rd year EE student: suck it up, kiddo. Break out some printer spew and a #2 pencil; I'm sure you can get from here to there.3. Many authors provide numeric solutions to SOME of the homework problems. ALL OTHER AUTHORS provide numeric answers to DRILL (PRACTICE) problems so that the reader can see if s/he has got the hang of it. THIS AUTHOR did not give answers to ANY of problems, drill or homework, in the book. This limits the effectiveness of the book as a teaching tool. It would be nice if answers to the drill problems could be posted on the internet (Hint, hint.)4. The authors language is adequate for the discussion of the subject matter -- three phase power, transformers, induction motors, etc.5. The book is too damn expensive.

Dr. Bala, the co-author speaks perfect English, I know first hand, and the book is written in proper English as well, though I have seen some very minor grammatical mistakes consistent with the way he speaks. The layout of the book was planned to best serve an introductory course for power engineering. It is not intended to function as a stand-alone guide. That being said, the book does have example problems, with complete solutions (not just answers). The authors' intent in writing a text with so many problems and few solutions was both for students to learn to derive solutions to problems, and to provide teachers with a broad spectrum of problems covering a variety of conceptual nuances which would be easy for someone understanding the topic to relate to students. In this manner students are forced to ask questions, gain intuition, and a genuine understanding for how to approach problems without relying on methodologies that comprehensive solutions would provide. It is a book not intended for technicians, but for understanding at the engineering level.

I used this book in my Junior year in School. As an EE/Math, this book is pretty good as far as the information goes in the book . This book doesn't overwhelm the reader with extra not required information. The CONCEPTS in this book are very clear as compare to the other two books I used. All what the author needs to do is to provide answers to the drill problems and some of the

questions at the end of each chapter.

I have several problems with this book. First, the author does not provide numerical answers to the problems or the drill problems. This makes it very difficult to verify if the problem was solved correctly. Second, the examples are poorly written. It fails to answer many what-if questions one comes up with when reading the chapters. Third, the index is poorly written and makes it difficult to look up information.

This is one of the most confusing books to use. I think I might have gotten more out of my power class if there was a better book. The examples skip a lot of steps, and the practice problems are useless because you don't have an answer key for any of them.

This book was obviously not written by an english speaking author. This is the only technical text book I have ever read that has so many problems but provides NO solutions. The examples in this book skip too many steps, and the author needs a basic revision in the English language.

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