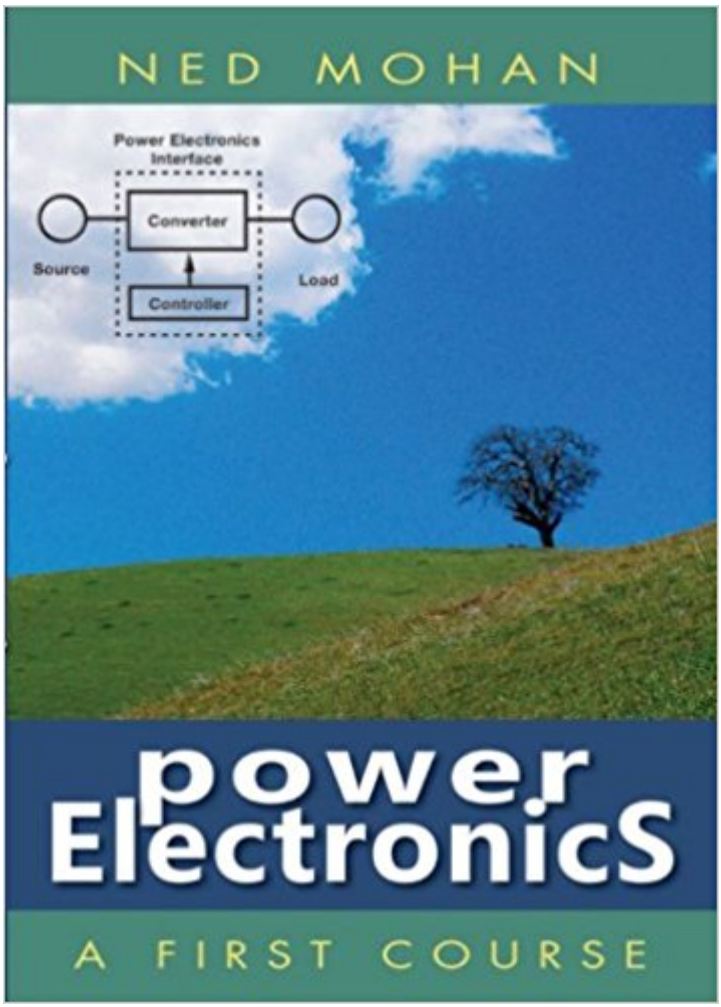
First Course On Power Electronics



Synopsis

An integrated Electric Energy Systems curriculum consists of three segments: Power Electronics, Power Systems and Electric Drives. This textbook follows a top-down systems-level approach to Power Electronics to highlight interrelationships between these sub-fields. This textbook is intended to teach students both the fundamentals and practical design in a single-semester course. A building-block approach to power electronics allows an in-depth discussion of several important topics that are left out in conventional courses, for example, designing feedback control, power-factor-correction circuits, soft-switching, and SV-PWM which is a PWM technique far superior to Sine-PWM, to name a few. The topics in this book are carefully sequenced to maintain continuity and student interest throughout the course. In a fast pace course with proper student background, this book can be covered from front-to-back in one semester. However, the material is arranged in such a way that an instructor, to accommodate the students background, can either omit an entire topic or cover it quickly to provide just an overview using the PowerPoint-based slides on the accompanying CD, without interrupting the flow. --This text refers to an out of print or unavailable edition of this title.

Book Information

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Electrical & Electronics > Electricity Principles #919 inÂ Kindle Store > Kindle eBooks > Nonfiction > Science > Technology > General & Reference

Customer Reviews

Often engineering books focus a bit too strongly on the math and leave the reader a little confused about what's actually happening. Although it's not perfect, I'd say this book does a pretty good job of nailing the concepts, while leaving most of the mathematics out of it.

Good and straight forward. I used this back during my junior year in college (3 years ago) and it was a nice little book. Tons of helpful equations, some of which aren't even in my grad books. Keep it handy (its small so no reason not too).

Got this book for a Power Electronics course. The book was very straight forward and easy to follow. My introduction to boost converters was made much easier thanks to this.

Used it for a class but feels a little complicated to understand.

Thank you. Great book just what I needed

I'm done with the following course, did pretty good in it though. For sure had a good experience while buying books from .

it is good for any one interest to study power electronic s

I buy so many engineering books!

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