



Power Electronics: Converters, Applications, and Design

By Ned Mohan, Tore M. Undeland, William P. Robbins

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Offering step-by-step, in-depth coverage, the new Third Edition of Power Electronics: Converters, Applications, and Design provides a cohesive presentation of power electronics fundamentals for applications and design in the power range of 500 kW or less. The text describes a variety of practical and emerging power electronic converters made feasible by the new generation of power semiconductor devices. The new edition is now enhanced with a new CD-ROM, complete with PSpice-based examples, a new magnetics design program, and PowerPoint slides.

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Editorial Review

From the Back Cover

Since its publication in 1989, each edition has strived to present a cohesive presentation of power electronics fundamentals for applications and design in the power range where there is demand in industry for power electronic engineers. A CD-ROM has been added to this edition, which readers will find useful in the exploration of power electronics and use of this text. The CD-ROM contains:

- * A large number of new end-of-chapter problems with varying degrees of difficulty.
- * PSpice(r) -based simulation examples to illustrate basic concepts and help in the design of converters. PSpice(r) is an ideal simulation tool for this purpose.
- * A newly developed magnetic component design program. This program is extremely useful in showing design trade-offs, for example, the influence of switching frequency on the size of inductors and transformers.
- * PowerPoint-based slides for all chapters that help summarize topics throughout the text.

The text also explores industrial and commercial applications, as well as practical aspects of power electronic converter design, such as snubber circuits, drive circuits, circuit layout, and heat sinks. Please visit <http://www.wiley.com/college/mohan> for additional information.

About the Author

Ned Mohan is the Oscar A. Schott Professor of Power Electronics at the University of Minnesota. He has numerous patents and publications in this field. He is a Fellow of the IEEE.

Tore M. Undeland is a professor in Power Electronics in the Faculty of Information Technology, Mathematics and Electrical Engineering at the Norwegian University of Science and Technology, NTNU, Trondheim, Norway. He is also a scientific advisor to the SINTEF Energy Research.

William P. Robbins is a professor in the Department of Electrical and Computer Engineering at the University of Minnesota. Prior to joining the University of Minnesota, he was a research engineer at the Boeing Company.

Users Review

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George Harvey:

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