



Elements of Power Electronics (The Oxford Series in Electrical and Computer Engineering)

Philip Krein

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Building on the tradition of its classic first edition, the long-awaited second edition of *Elements of Power Electronics* provides comprehensive coverage of the subject at a level suitable for undergraduate engineering students, students in advanced degree programs, and novices in the field. It establishes a fundamental engineering basis for power electronics analysis, design, and implementation, offering broad and in-depth coverage of basic material. **Streamlined throughout to reflect new innovations in technology, the second edition also features updates on renewable and alternative energy.**

Elements of Power Electronics features a unifying framework that includes the physical implications of circuit laws, switching circuit analysis, and the basis for converter operation and control. It discusses dc-dc, ac-dc, dc-ac, and ac-ac conversion tasks and principles of resonant converters and discontinuous converters. The text also addresses magnetic device design, thermal management and drivers for power semiconductors, control system aspects of converters, and both small-signal and geometric controls.

Models for real devices and components—including capacitors, inductors, wire connections, and power semiconductors—are developed in depth, while newly expanded examples show students how to use tools like Mathcad, Matlab, and Mathematica to aid in the analysis and design of conversion circuits.

Features:

- *More than **160 examples and 350 chapter problems** support the presented concepts
- *An extensive **Companion Website** includes additional problems, laboratory materials, selected solutions for students, computer-based examples, and analysis tools for Mathcad, Matlab, and Mathematica

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