



Power Electronics Basics: Operating Principles, Design, Formulas, and Applications

Yuriy Rozanov, Sergey E. Ryvkin, Evgeny Chaplygin, Pavel Voronin

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Power Electronics Basics: Operating Principles, Design, Formulas, and Applications provides fundamental knowledge for the analysis and design of modern power electronic devices. This concise and user-friendly resource:

- Explains the basic concepts and most important terms of power electronics
- Describes the power assemblies, control, and passive components of semiconductor power switches
- Covers the control of power electronic devices, from mathematical modeling to the analysis of the electrical processes
- Addresses pulse-width modulation, power quality control, and multilevel, modular, and multicell power converter topologies
- Discusses line-commutated and resonant converters, as well as inverters and AC converters based on completely controllable switches
- Explores cutting-edge applications of power electronics, including renewable energy production and storage, fuel cells, and electric drives

Power Electronics Basics: Operating Principles, Design, Formulas, and Applications supplies graduate students, industry professionals, researchers, and academics with a solid understanding of the underlying theory, while offering an overview of the latest achievements and development prospects in the power electronics industry.

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