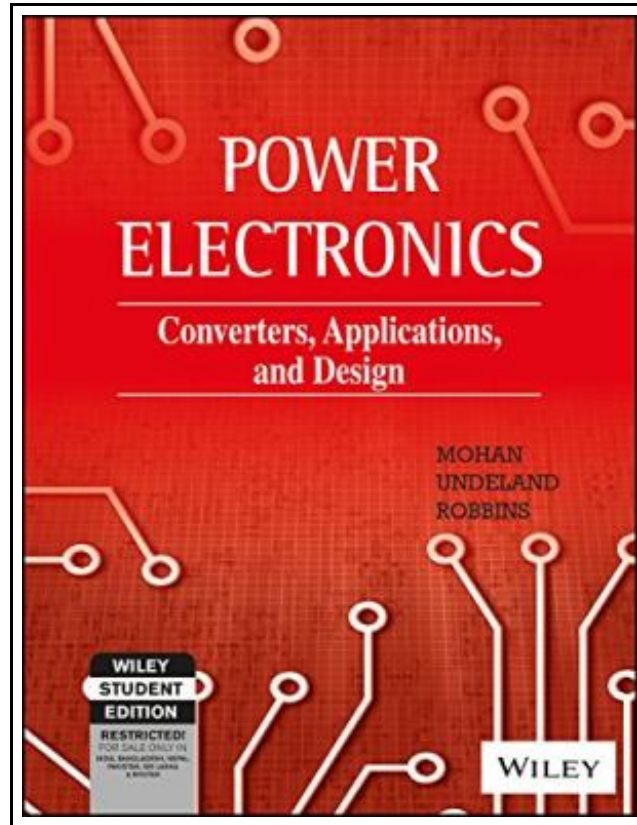


## Power Electronics: Converters Application and Design



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Wiley India Pvt. Ltd., 2014. Softcover. Book Condition: New. 5th or later edition. 18 x 24 cm. The text includes cohesive presentation of power electronics fundamentals for applications and design in the power range of 500 kW or less. It describes a variety of practical and emerging power electronic converters made feasible by the new generation of power semiconductor devices. Topics included in this book are an expanded discussion of diode rectifiers and thyristor converters as well as chapters on heat sinks, magnetic components which present a step-by-step design approach and a computer simulation of power electronics which introduces numerical techniques and commonly used simulation packages such as PSpice, MATLAB and EMTP. Contents:- Part I Introduction ? Power Electronic Systems ? Overview of Power Semiconductor Switches ? Review of Basic Electrical and Magnetic Circuit Concepts ? Computer Simulation of Power Electronic Converters and Systems Part II Generic Power Electronic Circuits ? Line-Frequency Diode Rectifiers: Line-Frequency ac Uncontrolled dc. ? Line-Frequency Phase-Controlled Rectifiers and Inverters: Line-Frequency ac Controlled dc ? dc-dc Switch-Mode Converters ? Switch-Mode dc-ac Inverters: dc Sinusoidal ac ? Resonant Converters: Zero-Voltage and/or Zero-Current Switchings Part III Power Supply Applications ? Switching dc Power Supplies ? Power Conditioners and Uninterruptible Power Supplies Part IV Motor Drive Applications ? Introduction to Motor Drives ? dc Motor Drives ? Induction Motor Drives ? Synchronous Motor Drives Part V Other Applications ? Residential and Industrial Applications ? Electric Utility Applications ? Optimizing the Utility Interface with Power Electronic Systems Part VI Semiconductor Devices ? Basic Semiconductor Physics ? Power Diodes ? Bipolar Junction Transistors ? Power MOSFETs ? Thyristors ? Gate Turn-Off Thyristors ? Insulated Gate Bipolar Transistors ? Emerging Devices and Circuits Part VII Practical Converter Design Considerations ? Snubber Circuits ? Gate and Base Drive Circuits ? Component Temperature Control...



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