



Soft-switching Pwm Full-bridge Converters: Topologies, Control, and Design (Hardback)

By Xinbo Ruan

John Wiley Sons Inc, United States, 2014. Hardback. Condition: New. Language: English . Brand New Book. Soft-switching PWM full-bridge converters have been widely used in medium-to-high power DC-DC conversions for topological simplicity, easy control and high efficiency. Early works on soft-switching PWM full-bridge converter by many researchers included various topologies and modulation strategies. However, these works were scattered, and the relationship among these topologies and modulation strategies had not been revealed. This book intends to describe systematically the soft-switching techniques for pulse-width modulation (PWM) full-bridge converters, including the topologies, control and design, and it reveals the relationship among the various topologies and PWM strategies previously proposed by other researchers. The book not only presents theoretical analysis, but also gives many detailed design examples of the converters. * Describes the soft-switching techniques for pulse-width modulation (PWM) full-bridge converters systematically * Covers topologies, control and design, from the basics, through to applications and development * Deliberates the soft-switching PWM control technique rather than the standard PWM control technique * Presents detailed theoretical analysis with design examples for various possible variations to the full-bridge topology using the soft-switching technique Soft-Switching PWM Full-Bridge Converters: Topologies, Control, and Design is an essential and valuable...



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