



Pulse-width Modulated DC-DC Power Converters (Hardback)

By Marian K. Kazimierczuk

John Wiley and Sons Ltd, United States, 2008. Hardback. Condition: New. 1. Auflage. Language: English . Brand New Book ***** Print on Demand *****. This book studies switch-mode power supplies (SMPS) in great detail. This type of converter changes an unregulated DC voltage into a high-frequency pulse-width modulated (PWM) voltage controlled by varying the duty cycle, then changes the PWM AC voltage to a regulated DC voltage at a high efficiency by rectification and filtering. Used to supply electronic circuits, this converter saves energy and space in the overall system. With concept-orientated explanations, this book offers state-of-the-art SMPS technology and promotes an understanding of the principle operations of PWM converters, as well as enabling the reader s to evaluate their characteristics. Design-orientated analysis (including a steady-state analysis for both continuous and discontinuous conduction modes) and numerous real-world practical examples (including circuit models of the PWM converters) demonstrate how to design these from scratch. The book provides an in-depth presentation of topologies of PWM DC-DC power converters, voltage- and current-mode control of PWM DC-DC power converters, considers power losses in all components, device stresses, output voltage ripple, converter efficiency and power factor correction (PFC). It also includes extensive coverage of the...



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Reviews

An incredibly great book with perfect and lucid answers. Better than never, though i am quite late in start reading this one. You will not sense monotony at whenever you want of the time (that's what catalogues are for relating to if you question me).

-- **Nannie Lindgren Jr.**

Complete guide! Its this kind of very good read through. I really could comprehended almost everything out of this written e publication. Your lifestyle span is going to be transform the instant you complete looking over this book.

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