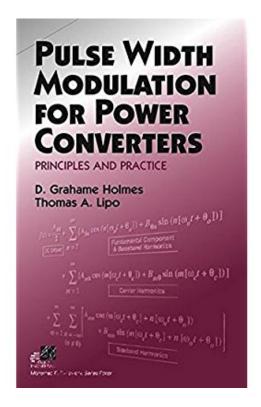
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Synopsis:

From the Back Cover An integrated and comprehensive theory of PWM The selection of the best algorithm for optimum pulse width modulation is an important process that can result in improved converter efficiency, better load (motor) efficiency, and reduced electromagnetic interference. However, the identification of the best approach is a complex process requiring extensive mathematical manipulation. Pulse Width Modulation for Power Converters: Principles and Practice is the first single-volume resource written to help researchers in the field attain a working knowledge of the subject. The authors bring together todays seemingly diverse approaches into a single integrated and comprehensive theory of modulation. The book provides a generalized approach to the fundamentals of PWM, looking at: Active switch pulse width determination Active switch pulse placement within a switching period Active switch pulse sequence between phase legs and across switching periods. The main benefit of this generalized concept is that once the common threads are identified, the selection of a modulation strategy for any converter topology becomes immediately clear, leaving only secondary factors, such as practical performance, cost, and difficulty of implementation to consider. Additionally, it allows the performance of any particular converter topology and PWM strategy to be quickly and easily identified without complex and time-consuming analysis. Pulse Width Modulation for Power Converters: Principles and Practice enables the reader to achieve optimum PWM results for any application. Read more About the Author D. GRAHAME HOLMES is a professor in the Department of Electrical and Computer Systems Engineering at Monash University, Australia. THOMAS A. LIPO is a professor in the Department of Electrical and Computer Engineering at the University of Wisconsin—Madison. Read more

Reviews:

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