Switch-Mode Power Supplies: SPICE Simulations and Practical Designs

by: Christophe Basso

Abstract: Switch-Mode Power Supplies: SPICE Simulations and Practical Designs is a comprehensive resource on using SPICE as a power conversion design companion. This book uniquely bridges analysis and market reality to teach the development and marketing of state-of-the-art switching converters. Invaluable to both the graduating student and the experienced design engineer, this guide explains how to derive founding equations of the most popular converters; design safe, reliable converters through numerous practical examples; and utilize SPICE simulations to virtually breadboard a converter on the PC before using the soldering iron.

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Description: Switch-Mode Power Supplies: SPICE Simulations and Practical Designs is a comprehensive resource on using SPICE as a power conversion design companion. This book uniquely bridges analysis and market reality to teach the development and marketing of state-of-the-art switching converters. Invaluable to both the graduating student and the experienced design engineer, this guide explains how to derive founding equations of the most popular converters; design safe, reliable converters through numerous practical examples; and utilize SPICE simulations to virtually breadboard a converter on the PC before using the soldering iron.