



Switch-Mode Power Supplies Spice Simulations and Practical Designs

Christophe Basso

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Harness Powerful SPICE Simulation and Design Tools to Develop Cutting-Edge Switch-Mode Power Supplies

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.

Filled with more than 600 illustrations, *Switch-Mode Power Supplies: SPICE Simulations and Practical Designs* enables you to:

- Derive founding equations of popular converters
- Understand and implement loop control via the book-exclusive small-signal models
- Design safe, reliable converters through practical examples
- Use SPICE simulations to virtually breadboard a converter on the PC
- Access design spreadsheets and simulation templates on the accompanying CD-ROM, with numerous examples running on OrCAD[®], ICAPS[®], μ Cap[®], TINA[®], and more

Inside This Powerful SPICE Simulation and Design Resource

• Introduction to Power Conversion • Small-Signal Modeling • Feedback and Control Loops • Basic Blocks and Generic Models • Simulation and Design of Nonisolated Converters • Simulation and Design of Isolated Converters-Front-End Rectification and Power Factor Correction • Simulation and Design of Isolated Converters-The Flyback • Simulation and Design of Isolated Converters-The Forward

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