



# Switch-Mode Power Supplies, Second Edition: SPICE Simulations and Practical Designs

*Christophe Basso*

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# Switch-Mode Power Supplies, Second Edition: SPICE Simulations and Practical Designs

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**Switch-Mode Power Supplies, Second Edition: SPICE Simulations and Practical Designs** Christophe Basso

THE LATEST SPICE SIMULATION AND DESIGN TOOLS FOR CREATING STATE-OF-THE-ART SWITCHING POWER SUPPLIES Fully updated to incorporate new SPICE features and capabilities, this practical guide explains, step by step, how to simulate, test, and improve switch-mode power supply designs. Detailed formulas with founding equations are included. Based on the author's continued research and in-depth, hands-on work in the field, this revised resource offers a collection of the latest SPICE solutions to the most difficult problem facing power supply designers: creating smaller, more heat-efficient power supplies in shorter design cycles.

## **NEW to this edition:**

- Complete analysis of rms currents for the three basic cells in CCM and DCM
- PWM switch at work in the small-signal analysis of the DCM boost and the QR flyback
- OTA-based compensators
- Complete transistor-level TL431 model
- Small-signal analysis of the borderline-operated boost PFC circuit operated in voltage or current mode
- All-over power phenomena in QR or fixed-frequency discontinuous/continuous flyback converters
- Small-signal model of a QR flyback converter
- Small-signal model of the active clamp forward converter operated in voltage mode control
- Electronic content--design templates and examples available online

***Switch-Mode Power Supplies: SPICE Simulations and Practical Designs, Second Edition, covers:***

Small-signal modeling \* Feedback and control loops \* Basic blocks and generic switched models \* Nonisolated converters \* Off-line converters \* Flyback converters \* Forward converters \* Power factor correction

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