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the latest spice simulation and design tools for creating state of the art switchmode 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 handson 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 voltagemode 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 ciontrol loops basic blocks and generic switched models nonisolated converters off line converters flyback converters forward converters power factor correction

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