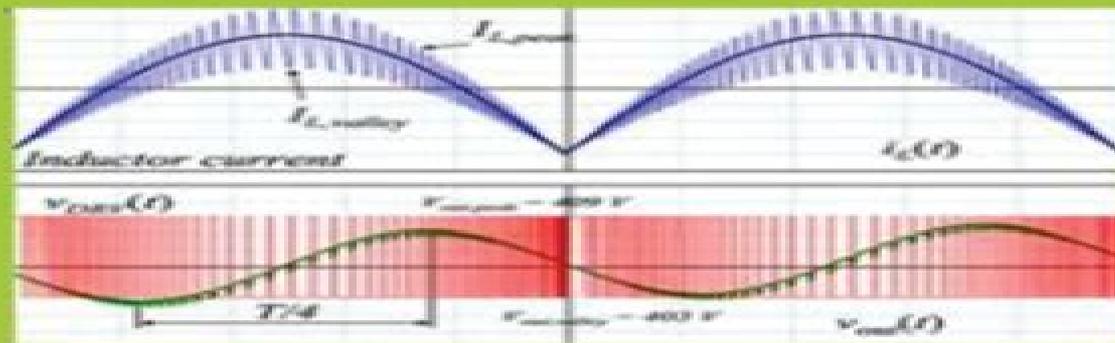


SECOND EDITION



SWITCH-MODE POWER SUPPLIES

SPICE SIMULATIONS
AND PRACTICAL DESIGN

CHRISTOPHE P. BASS



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Practical Computer Analysis of Switch Mode Power Supplies Johnny C. Bennett,2018-10-03 When designing switch mode power supplies SMPSs engineers need much more than simple recipes for analysis Such plug and go instructions are not at all helpful for simulating larger and more complex circuits and systems Offering more than merely a cookbook *Practical Computer Analysis of Switch Mode Power Supplies* provides a thorough understanding of the essential requirements for analyzing SMPS performance characteristics It demonstrates the power of the circuit averaging technique when used with powerful computer circuit simulation programs The book begins with SMPS fundamentals and the basics of circuit averaging models reviewing most basic topologies and explaining all of their various modes of operation and control The author then discusses the general analysis requirements of power supplies and how to develop the general types of SMPS models demonstrating the use of SPICE for analysis He examines the basic first order analyses generally associated with SMPS performance along with more practical and detailed methods for developing SMPS and component models The final chapter features the circuit averaging macromodel of the integrated circuit PWM controller illustrated through analyses of three power supplies *Practical Computer Analysis of Switch Mode Power Supplies* builds a strong foundation on the principles of SMPS analysis enabling further development and advancement of the techniques while supplying meaningful insight into the process

Charge Pump IC Design Feng Pan,2015-07-27 Design state of the art charge pumps *Charge Pump IC Design* delivers an advanced systematic approach to charge pump circuit design from building blocks to final pump The book describes how to achieve high power efficiency and low supply noise Negative feedback control compensation and stability are discussed and real world design examples with schematics are included The proven techniques presented in this practical cutting edge guide will help you to provide the efficient power conversion needed for today s portable electronic devices Comprehensive coverage includes Regulators and power converters Charge pump design specifications and design metrics Single stage charge pump Multi stage charge pump Charge pump clock driver

Charge pump stability analysis Charge pump design regulation and control by examples Charge pump applications [Indian National Bibliography](#) B. S. Kesavan,2009 *Electronics & Wireless World* ,1988 [The Indian National Bibliography](#) B. S. Kesavan,2009 **Switch-Mode Power Supply Simulation: Designing with SPICE 3 : Designing with SPICE 3** Steven Sandler,2005-11-11 A master class in power supply design through circuit simulation This book CD ROM package covers every essential aspect of power supply design simulation and fully explains the fundamentals of SPICE 3 simulation techniques CD ROM contains SPICE3 and ISPICE simulation models and examples from the book allowing easy customization [Electrical & Electronics Abstracts](#) ,1997 *CIREC: pt. 1. Contributions. Technical theme 2, Power quality and EMC* ,2001 **SMPS Simulation with SPICE 3** Steven M. Sandler,1997

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