

Switch-Mode Power Supply Simulation

DESIGNING WITH SPICE 3



- ✓ Power factor correctors
- ✓ Solving convergence problems
- ✓ CD with Spice3 and tSpice models and examples

Steven M. Sandler

Switch Mode Power Supply Simulation Designing With Spice 3

Christophe Basso



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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

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SMPS Simulation with SPICE 3 Steven M. Sandler, 1997

Switch-Mode Power Supplies Spice Simulations and Practical Designs Christophe Basso, 2008-02-06 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 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

Power-Switching Converters, Second Edition Simon Ang, Alejandro Oliva, 2005-03-17 After nearly a decade of success owing to its thorough coverage abundance of problems and examples and practical use of simulation and design Power Switching Converters enters its second edition with new and updated material entirely new design case studies and expanded figures equations and homework problems This textbook is ideal for senior undergraduate or graduate courses in power electronic converters requiring only systems analysis and basic electronics courses The only text of such detail to also include the use of PSpice and step by step designs and simulations Power Switching Converters Second Edition covers basic topologies basic control techniques and closed loop control and stability It also includes two new chapters on interleaved converters and switched capacitor converters and the authors have

added discrete time modeling to the dynamic analysis of switching converters The final two chapters are dedicated to simulation and complete design examples respectively PSpice examples and MATLAB scripts are available for download from the CRC Web site These are useful for the simulation of students designs Class slides are also available on the Internet Instructors will appreciate the breadth and depth of the material more than enough to adapt into a customized syllabus Students will similarly benefit from the more than 440 figures and over 1000 equations ample homework problems and case studies presented in this book

Magnetic Components for Power Electronics Alex Goldman, 2012-12-06 Magnetic Components for Power Electronics concerns the important considerations necessary in the choice of the optimum magnetic component for power electronic applications These include the topology of the converter circuit the core material shape size and others such as cost and potential component suppliers These are all important for the design engineer due to the emergence of new materials changes in supplier management and the examples of several component choices Suppliers using this volume will also understand the needs of designers Highlights include Emphasis on recently introduced new ferrite materials such as those operating at megahertz frequencies and under higher DC drive conditions Discussion of amorphous and nanocrystalline metal materials New technologies such as resonance converters power factors correction PFC and soft switching Catalog information from over 40 magnetic component suppliers Examples of methods of component choice for ferrites amorphous nanocrystalline materials Information on suppliers management changes such as those occurring at Siemens Philips Thomson and Allied Signal Attention to the increasingly important concerns about EMI This book should be especially helpful for power electronic circuit designers technical executives and material science engineers involved with power electronic components

Modern Ferrite Technology Alex Goldman, 2006-09-28 For the past seventy years ferrites magnetic ceramics have been prized for a range of properties that has no equivalent in the existing metal magnetic materials They have contributed to many important advances in electronics and new high performance products are appearing all the time Ferrite technology has produced greater progress in the past 15 years since the first edition was published Many of the semiconductor and IC technology responsible for the computer and Internet explosion would not have been possible without the magnetic materials technology needed for powering and otherwise exploiting those developments Modern Ferrite Technology 2nd ed offers the readers an expert overview of the latest ferrite advances as well as their applications in electronic components This volume develops the interplay among material properties component specification and device requirements using ferrites Throughout emphasis is placed on practical technological concerns as opposed to mathematical and physical aspects of the subject The book traces the origin of the magnetic effect in ferrites from the level of the simplest particle and the increases the scope to the larger and larger hierarchies From the desired magnetic properties the author deduces the physical and chemical material parameters taking into consideration major chemistry impurity levels ceramic microstructures and grain boundary effects He then discusses the processing conditions and associated conditions required

for implementation In addition to conventional ceramic techniques he describes non conventional methods such as coprecipitation co spray roasting and single crystal growth The second section of this book deals with a complete listing of the many important applications in the field including ferrites for permanent magnet telecommunications power supplies memory systems magnetic recording and microwave applications The function of ferrites in each of these applications is described The requirements of the electronic circuit and device are broken down into the individual component specifications with regard to size and configuration Design criteria for power level degree of stability and cost are then considered

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

Switched-Mode Power Supply Simulation with SPICE Steven M Sandler, 2018-01-09 In a reprint of Steve Sandler's classic technical book PWM models and power supply simulation solutions are described in depth with special attention paid to practical magnetic components All common topologies are discussed including linear buck and flyback converters Practical guidance is given for EMI RFI filtering and magnetics design and analysis Most of the book's code available to book purchasers will run unaltered on all of popular SPICE versions including PSpice LTSpice and Tina Sometimes maligned SPICE can provide very accurate results that correlate with real circuit operation if accurate models are used As an internationally recognized power supply expert and zealot for improved power integrity Steve Sandler's classic *Switched Mode Power Supply Simulation* is a valuable resource for any Engineer's bookshelf

Design and Control of Power Converters 2020 Manuel Arias, 2021-06-04 In this book nine papers focusing on different fields of power electronics are gathered all of which are in line with the present trends in research and industry Given the generality of the Special Issue the covered topics range from electrothermal models and losses models in semiconductors and magnetics to converters used in

high power applications In this last case the papers address specific problems such as the distortion due to zero current detection or fault investigation using the fast Fourier transform all being focused on analyzing the topologies of high power high density applications such as the dual active bridge or the H bridge multilevel inverter All the papers provide enough insight in the analyzed issues to be used as the starting point of any research Experimental or simulation results are presented to validate and help with the understanding of the proposed ideas To summarize this book will help the reader to solve specific problems in industrial equipment or to increase their knowledge in specific fields

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