ELECTRONIC

SWITCH-MODE POWER SUPPLIES

SPICE Simulations and Practical Designs

CHRISTOPHE P. BASSO



Switch Mode Power Supplies Spice Simulations And Practical

Sanjaya Maniktala

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Switch-mode Power Supplies Christophe P. Basso, 2008 **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 Switch More Power Supply Basso, Christophe P. Basso, 2008-04 This is a resource on using SPICE as a power conversion design companion The book bridges analysis and market reality to teach the development and marketing of state of the art switching converters It explains how to derive founding equations of the most popular converters and design safe reliable converters

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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 **Computer-Aided Analysis and Design of Switch-Mode Power Supplies** Lee, 2017-10-19 This comprehensive reference text explains the development and principles of operation modelling and analysis of switch mode power supplies SMPS highlighting conversion efficiency size and steady state transient regulation characteristics Covering the practical design techniques of SMPS this book reveals how to develop specific models of circuits and components for simulation and design purposes explains both the computer simulation of the switching behaviours of dc to dc converters and the modelling of linear and nonlinear circuit components deals with the modelling and simulation of the low frequency behaviours of converters including current controlled converters and converters with multiple outputs and regulators describes computer aided design CAD techniques as applied to converters and regulators introduces the principles and design of quasi resonant and resonant converters provides details on SPICE a circuit simulator package used to calculate electrical circuit behaviour Containing over 1000 helpful drawings equations and tables this is a valuable reference for circuit design electrical and electronics engineers and serves as an excellent text for upper level undergraduate and graduate students in these disciplines **Designing Control Loops for Linear and Switching Power Supplies** Christophe P. Basso, 2012 Loop control is an essential area of electronics engineering that todays professionals need to master Rather than delving into extensive theory this practical book focuses on what you really need to know for compensating or stabilizing a given control system You can turn instantly to practical sections with numerous design examples and ready made formulas to help you with your projects in the field You also find coverage of the underpinnings and principles of control loops so you can gain a more complete understanding of the material This authoritative volume explains how to conduct analysis of control systems and provides extensive details on practical compensators It helps you measure your system showing how to verify if a prototype is stable and features enough design margin Moreover you learn how to secure high volume production by bench verified safety margins Switching Power Supplies A - Z Sanjaya Maniktala, 2012-05-10 Switching Power Supplies A Z is the most comprehensive study available of the theoretical and practical aspects of controlling and measuring Electromagnetic Interference in switching power supplies including input filter instability considerations The new edition is thoroughly revised with six completely new chapters while the existing EMI chapters are expanded to include many more step by step numerical examples and key derivations and EMI mitigation techniques New topics cover the length and breadth of modern switching power conversion techniques lucidly explained in simple but thorough terms now with uniquely detailed wall reference charts providing easy access to even complex topics Step by step and iterative approach for calculating high frequency losses in forward converter transformers

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and hybrid DC DC converters and their essential circuit blocks covering error amplifiers comparators and ramp generators Sensing protection and diagnostics covering thermal protection inductive loads and clamping structures under voltage reference and power on reset generation Integrated MOS MOM and MIM capacitors integrated inductors Control loop design and PWM generation ensuring stability and fast transient response subharmonic oscillations in current mode control analysis and circuit design for slope compensation DC behavior and DC related circuit design covering power efficiency line and load regulation error amplifier dropout and power transistor sizing Commonly used level shifters including sizing rules and cascaded tapered driver sizing and optimization guidelines Optimizing the physical design considering packaging floor planning EMI pinout PCB design and thermal design Design of Power Management Integrated Circuits is an essential resource on the subject for circuit designers IC designers system engineers and application engineers along with advanced undergraduate students and graduate students in related programs of study **Power Electronics Applied to Industrial** Systems and Transports, Volume 3 Nicolas Patin, 2015-05-07 Some power electronic converters are specifically designed to power equipment under a smoothed DC voltage Therefore the filtering part necessarily involves the use of auxiliary passive components inductors and capacitors This book deals with technical aspects such as classical separation between isolated and non isolated power supplies and soft switching through a special converter It addresses the problem of regulating the output voltage of the switching power supplies in terms of modeling and obtaining transfer of SMPS functions Power Electronics for Industry and Transport Volume 3 offers a case study of an isolated flyback power which the complete design is presented the active and passive components are sized based on the specifications initially set Particular attention is given to the converter output capacitors and all the surrounding organs Introducing Essential notions in power electronics from both the theoretical and technological perspectives Detailed chapters with a focus on switch mode power supplies another key area in which power electronics is used is in the supply of energy to a variety of electronic equipment for signal and information processing Presented from a user's perspective to enable you to apply the theory of power electronics to practical applications Inside OrCAD Capture for Windows Chris Schroeder, 1998-08-24 Inside OrCAD Capture for Windows is a reference manual and tutorial for engineers and technicians who use OrCAD as an engineering design assistance EDA tool This introduction to OrCAD is designed to give easy access to practical information Important subjects such as export of schematic data for use in circuit analysis or PCB design are expanded well beyond the information available in OrCAD's documentation The command reference is a complete listing and explanation of the OrCAD commands and functions A series of appendices provide important tips and techniques and information about linking OrCAD to other CAD CAE tools used in the electronics design process A utilities disk is included Exercises at the end of each chapter make this book appropriate for academic use The accompanying disk contains a parts library for the tutorial exercises and several useful utilities such as a bill of material sort making this book a valuable tool for the design engineer or engineering student

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converter topologies have been recently proposed in the literature for a variety of emerging applications. These novel converter topologies have different design criteria as well as particularities associated with the digital control system. This book provides a comprehensive overview of the current state of the art and addresses recent breakthroughs in a range of power converter technology with a special emphasis on design emerging applications and control Recent Trends in Physics of Material Science and Technology. Ford Lumban Gaol, Keshav Shrivastava, Jamil Akhtar, 2014-12-27. This book discusses in detail the recent trends in Computational Physics Nano physics and Devices Technology. Numerous modern devices with very high accuracy are explored. In conditions such as longevity and extended possibilities to work in wide temperature and pressure ranges aggressive media etc. This edited volume presents 32 selected papers of the 2013. International Conference on Science Engineering in Mathematics Chemistry and Physics. The book is divided into three scientific Sections i Computational Physics ii Nanophysics and Technology iii Devices and Systems and is addressed to Professors post graduate students scientists and engineers taking part in R D of nano materials ferro piezoelectrics computational Physics and devices system and also different devices based on broad applications in different areas of modern science and technology.

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