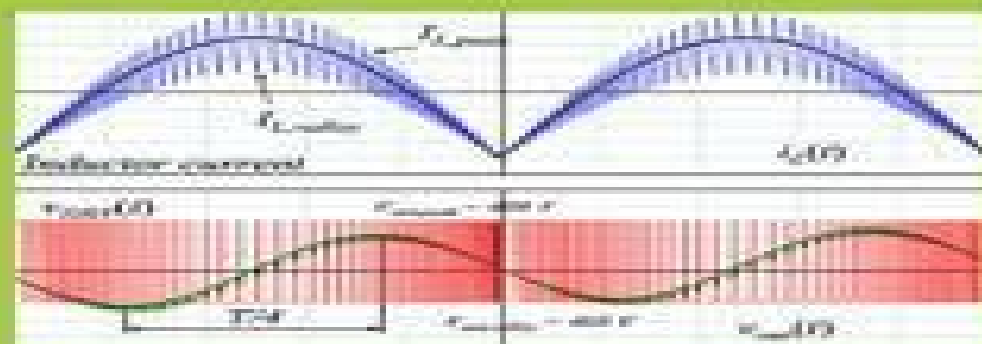


SECOND EDITION




# SWITCH-MODE POWER SUPPLIES

SPICE SIMULATIONS  
AND PRACTICAL DESIGNS

CHRISTOPHE P. BASSO

# Switch Mode Power Supplies Second Edition Spice Simulations And Practical Designs

**Raul Gregor, Kim Ho Yeap, Augustine O.  
Nwajana**



## **Switch Mode Power Supplies Second Edition Spice Simulations And Practical Designs:**

**Switch-Mode Power Supplies Spice Simulations and Practical Designs** Christophe Basso, 2008-01-14 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-mode Power Supplies* Christophe P. Basso, 2008      **Switch-Mode Power Supplies, Second Edition** Christophe P. Basso, 2014-06-04 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 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      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      CMOS R. Jacob Baker, 2019-06-19 A revised guide to the theory and implementation of CMOS analog and digital IC design The fourth edition of CMOS Circuit Design Layout and Simulation is an updated guide to the practical design of both analog and digital integrated circuits The author a noted expert on the topic offers a contemporary review of a wide range of analog digital circuit blocks including phase locked loops delta sigma sensing circuits voltage current references op amps the design of data converters and switching power supplies CMOS includes discussions that detail the trade offs and considerations when designing at the transistor level The companion website contains numerous examples for many computer aided design CAD tools Using the website enables readers to recreate modify or simulate the design examples presented throughout the book In addition the author includes hundreds of end of chapter problems to enhance understanding of the content presented This newly revised edition Provides in depth coverage of both analog and digital transistor level design techniques Discusses the design of phase and delay locked loops mixed signal circuits data converters and circuit noise Explores real world process parameters design rules and layout examples Contains a new chapter on Power Electronics Written for students in electrical and computer engineering and professionals in the field the fourth edition of CMOS Circuit Design Layout and Simulation is a practical guide to understanding analog and digital transistor level design theory and techniques      **Power Supply Cookbook** Marty Brown, 2001-06-13 Power Supply Cookbook Second Edition provides an easy to follow step by step design framework for a wide variety of power supplies With this book anyone with a basic knowledge of electronics can create a very complicated power supply design in less than one day With the common industry design approaches presented in each section this unique book allows the reader to design linear switching and quasi resonant switching power supplies in an organized fashion Formerly complicated design topics such as magnetics feedback loop compensation design and EMI RFI control are all described in simple language and design steps This book also details easy to modify design examples that provide the reader with a design template useful for creating a variety of power supplies This newly revised edition is a practical start to finish design reference It is organized to allow both seasoned and inexperienced engineers to quickly find and apply the information they need Features of the new edition include updated information on the design of the output stages selecting the controller IC and other functions associated with power supplies such as switching power supply control synchronization of the power supply to an external source input low voltage inhibitors loss of power signals output voltage shut down major current loops and paralleling filter capacitors It also offers coverage of waveshaping techniques major loss reduction techniques snubbers and quasi resonant converters Guides engineers through a step by step design framework for a wide

variety of power supplies many of which can be designed in less than one day Provides easy to understand information about often complicated topics making power supply design a much more accessible and enjoyable process Power Electronics, Radio Frequency and Microwave Engineering Raul Gregor, Kim Ho Yeap, Augustine O. Nwajana, 2023-12-06 Nowadays the use of power converter technology has expanded into a wide range of low medium and high power applications due to the technology's capability to efficiently manage electrical energy In this regard the high penetration of modern microprocessors capable of implementing high performance nonlinear digital controllers and the recent advances in the development of high speed switching power electronic devices where on state loss and consequently switching loss of power semiconductors are significantly decreased have contributed to increased efficiency of the new power converters As a result the size of power converters becomes small and the power converters with less heat generation have little environmental stress Several power 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 **Switched Mode Power Supplies** H. W. Whittington, Brian W. Flynn, Donald Ewen Macpherson, 1992 **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 *Designing Control Loops for Linear and Switching Power Supplies* Christophe P. Basso, 2012 Loop control is an essential area of electronics engineering that

today's 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.

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.

**Switch Mode Power Supply Spice Cookbook- Special Printing for Customer with Own Logo - One Off Sale Only**

Basso, 2001-03-01. 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's 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, ICAPSE, CapE, TINA-E 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 *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 Switch-Mode Power Supply Simulation Steven Sandler, 2006 CD with OrCAD PSpice examples from cover **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 *Switch-mode Power Supply SPICE Cookbook* Christophe P. Basso, 2001 CD ROM contains INTUSOFT demo CD version 1.9 OrCAD evaluation software 9.1 MicroCap evaluation 6.1.3 and PSIM demo version 4.1a **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      **Switch-Mode Power Supply Simulation: Designing with SPICE 3** Steven Sandler, 2005-12-02 CD ROM contains SPICE3 and ISPICE simulation models and examples from the book allowing easy customization      Switchmode Power Supply Handbook 3/E Keith Billings, Taylor Morey, 2010-10-06 The definitive guide to switchmode power supply design fully updated Covering the latest developments and techniques Switchmode Power Supply Handbook third edition is a thorough revision of the industry leading resource for power supply designers New design methods required for powering small high performance electronic devices are presented Based on the authors decades of experience the book is filled with real world solutions and many nomograms and features simplified theory and mathematical analysis This comprehensive volume explains common requirements for direct operation from the AC line supply and discusses design theory and practice Engineering requirements of switchmode systems and recommendations for active power factor correction are included This practical guide provides you with a working knowledge of the latest topologies along with step by step approaches to component decisions to achieve reliable and cost effective power supply designs Switchmode Power Supply Handbook third edition covers Functional requirements of direct off line switchmode power supplies Power components selection and transformer designs for converter circuits Transformer choke and thermal design Input filters RFI control snubber circuits and auxiliary systems Active power factor correction system design Worked examples of would components Examples of fully resonant and quasi resonant systems A resonant inverter fluorescent ballast An example of high power phase shift modulated system A new MOSFET resonant inverter drive scheme A single control wide range wave oscillator      *Switchmode Power Supply Handbook* Keith Billings, 1999 Unarguably the leading hands on guide in this rapidly expanding area of electronics Keith Billings new revision of his Switchmode Power Supply Handbook brings state of the art techniques and developments to engineers at all levels Offering sound working knowledge of the latest in topologies and clear step by step approaches to component decisions this Handbook gives power supply designers practical solutions oriented design guidance free of unnecessarily complicated mathematical derivations and theory This thoroughly updated Handbook features many new fully worked examples as well as numerous nomograms everything you need to design today's smaller faster and cooler systems Turn to just about any page and you'll find cutting edge design expertise on electronic ballast power factor correction new thermal management techniques transformers chokes input filters EMI control converters snubber circuits auxiliary systems and much more The most comprehensive book on power supply design available anywhere Switchmode Power Supply Handbook is the industry standard now fully updated for the 21st century



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