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Switch-Mode Power Supply SPICE Cookbook

Christophe P. Bassot



Switch Mode Power Supply Spice Cookbook

Christophe Basso

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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

Power-Switching Converters Simon Ang,Alejandro Oliva,Gary Griffiths,Richard Harrison,2010-12-20 Significantly expanded and updated with extensive revisions new material and a new chapter on emerging applications of switching converters Power Switching Converters Third Edition offers the same trusted accessible and comprehensive information as its bestselling predecessors Similar to the two previous editions this book can be used for a

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

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

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

Latest

Advances in Electrothermal Models Krzysztof Górecki,Paweł Górecki,2021-03-17 This book is devoted to the latest advances in the area of electrothermal modelling of electronic components and networks It contains eight sections by different teams of authors These sections contain the results of a electro thermal simulations of SiC power MOSFETs using a SPICE like simulation program b modelling thermal properties of inductors taking into account the influence of the core volume on the efficiency of heat removal c investigations into the problem of inserting a temperature sensor in the neighbourhood of a chip to monitor its junction temperature d computations of the internal temperature of power LEDs situated in modules containing multiple power LEDs taking into account both self heating in each power LED and mutual thermal couplings between each diode e analyses of DC DC converters using the electrothermal averaged model of the diode

transistor switch including an IGBT and a rapid switching diode f electrothermal modelling of SiC power BJTs g analysis of the efficiency of selected algorithms used for solving heat transfer problems at nanoscale h analysis related to thermal simulation of the test structure dedicated to heat diffusion investigation at the nanoscale

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

Thermal and Electro-Thermal System Simulation

Márta Rencz,Lorenzo Codecasa,2019-11-18 With increasing power levels and power densities in electronics systems thermal issues are becoming more and more critical The elevated temperatures result in changing electrical system parameters changing the operation of devices and sometimes even the destruction of devices To prevent this the thermal behavior has to be considered in the design phase This can be done with thermal and electro thermal design and simulation tools This Special Issue of Energies edited by two well known experts of the field Prof Marta Rencz Budapest University of Technology and Economics and by Prof Lorenzo Codecasa Politecnico di Milano collects twelve papers carefully selected for the representation of the latest results in thermal and electro thermal system simulation These contributions present a good survey of the latest results in one of the most topical areas in the field of electronics The thermal and electro thermal

simulation of electronic components and systems Several papers of this issue are extended versions of papers presented at the THERMINIC 2018 Workshop held in Stockholm in the fall of 2018 The papers presented here deal with modeling and simulation of state of the art applications that are highly critical from the thermal point of view and around which there is great research activity in both industry and academia Contributions covered the thermal simulation of electronic packages electro thermal advanced modeling in power electronics multi physics modeling and simulation of LEDs and the characterization of interface materials among other subjects Switch-mode Power Supplies Christophe P. Basso,2008

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

Second International Conference on Power Electronics, Machines, and Drives (PEMD 2004)

,2004 Proceedings of the ... International Symposium on Power Semiconductor Devices and ICs ,2004 Active EMI

Filtering for DC-DC Converters Nicolai Bech Mortensen,2005 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

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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

Analysis on Dynamic Characteristics of Hybrid Stepping Motor and Control of Its Power Converter Seong Gu Kang,2004

Switch Mode Power Supply Spice Cookbook: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have enthralled audiences this year. The Must-Read : Colleen Hoovers "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Switch Mode Power Supply Spice Cookbook : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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