

# Practical Computer Analysis of

# Switch Mode Power Supplies

**JOHNNY C. BENNETT**



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# Practical Computer Analysis Of Switch Mode Power Supplies

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## **Practical Computer Analysis Of Switch Mode Power Supplies:**

*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

**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

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**Switch-mode Power Supply Design** P. R. K. Chetty, 1986

**Electrical Contacts** Milenko Braunovic, Nikolai K. Myshkin, Valery V. Konchits, 2017-12-19 Various factors affect the performance of electrical contacts including tribological mechanical electrical and materials aspects Although these behaviors have been studied for many years they are not widely used or understood in practice Combining approaches used across the globe

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Switch-Mode Power Supplies, Second Edition Christophe P. Basso, 2014-06-04

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sections comprising 43 chapters Coverage of numerous applications including uninterruptable power supplies and automotive electrical systems New content in power generation and distribution including solar power fuel cells wind turbines and flexible transmission

**Switch-mode Power Supplies** Christophe P. Basso,2008 **IETE Technical Review** ,2000 **Electrical & Electronics Abstracts** ,1997 *Practical Switching Power Supply Design* Marty Brown,1990-03-28 Why use switching power supplies How a switching power supply works A walk through a representative switching power supply Switching power supply topologies Semiconductors used in a switching power supply The magnetic components within a switching power supply Cross regulation of the outputs Protection Miscellaneous topics Closing the loop feedback and stability Resonant converters an introduction Switching power supply design examples **Proceedings of ... International Conference on Power Electronics and Drive Systems** ,1999 Proceedings of POWERCON. ,1980 VIII IEEE International Power Electronics Congress ,2002 *International Conference on Simulation '98* ,1998 The 68 papers in this volume are the proceedings of the International Conference on Simulation *Japanese Technical Abstracts* ,1988 *CIEP ...* ,2002

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