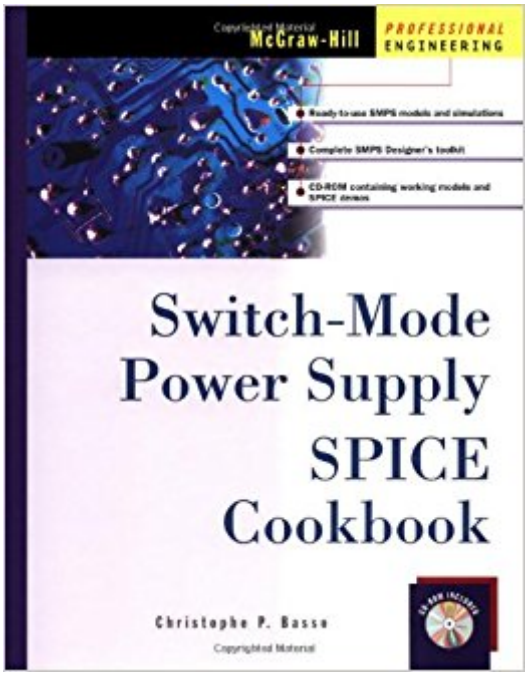
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Switch-Mode Power Supply SPICE Cookbook



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Synopsis

Ready-made SPICE power supply solutions Now you can get solutions to the most difficult problems facing power supply designers: shrinking size and increased thermal constraints. Christophe BassoÃ¢â ¬â„¢s SMPS SPICE Cookbook is a complete designerÃ¢â ¬â„¢s toolkit with tested, ready-to-run SPICE models on an accompanying CD-ROM. The models come in all three SPICE flavors with demo versions. You can start from scratch, installing the software and simulating the examples in the book without any SPICE experience whatsoever. All the common SMPS topologies are covered: buck, boost, buck-boost, and SEPIC. Each is described in terms of relative strengths and weaknesses and then modeled. Just turn to the CD, pull out the model in the flavor of SPICE you use, plug in your own values Ã¢â ¬â œ and out comes a design solution. All the models in the book have been carefully simulated and tested. A special website even lets you access new models that will be posted on a continuing basis

Book Information

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Customer Reviews

"I can only give a glowing review for Basso’s proposed book. Christophe Basso is a frequent contributor to EDN’s Design ideas section, and his submissions are uniformly excellent and innovative. His topic is an extremely valid one, and should be of interest to many readers. A wealth of literature exists on SPICE models for power supplies, but it’s generally scattered in companies’

application literature and conference papers. Basso’s effort is the first I know of to compile the SPICE information in one place." Daniel Mitchell, Technical Editor, EDN Magazine

Christope P. Basso (Pibrac, France) is currently Technical Engineer at ON Semiconductor (formerly Motorola Semiconductor). He is frequent contributor to EDN Magazine.

Excellent

very sharp and nice feel in your hand. A nice company to deal with .Hope my product and I get many happy years together .Would for sure buy another product from them. for Tina , Received as described. as the price. just fine,

To my best knowledge, the well-written book gives for the first time a comprehensive treatment of spice and switched-mode power supplies (SMPS’s). A short history of modelling techniques is discussed with references to relevant literature; also some tricks to speed up a simulation are given. The main part of the book consists of the small-signal (averaged) and transient models for the most common converters, such as buck, boost, flyback, forward, half-bridge, etc.; all illustrated by examples. Most of the examples are available in electronic format on the accompanying CD-ROM; the reader can start quite quickly with experimenting with the templates. Unfortunately, extracting the models from IsSpice (which we use) is quite cumbersome, since first the demo version has to be installed before the models are available. This demo version conflicts with the commercial version (although Intusoft gives a solution on their web-site). In a next release it would be very helpful to distribute the models separately on the CD (or web?). Nevertheless, the book is according to my opinion very useful for people working in the field of SMPS’s. Calculating the closed-loop response and stability analysis is now really easy. Comprehensive, easy to read. Good work.

I can understand why many people who bought this book thinking that it would be usefull for learning how to use SPICE or learning how to design power supplies were dissappointed. Basso is definitely not for beginners. The book assumes you have a fundamental knowledge of SPICE and electronics. He provides a generous list of papers and books which the beginner can use to come up to speed on the various complex principals of power supply design.If you are a working professional in power electronics, buy this book. Basso gives away a lot of very accurate cookbook designs that can be easily "tweaked" to fit any design requirement. The circuits provided in this book

made it very easy for me to make a complete working SPICE model of my design in just a few hours.Learn the fundamentals about power electronics and SPICE, then buy this book.

This is a complete Power Supply Designers Toolkit/cookbook with ready to run simulation templates for optimun solutions to loop stabilization. There is just enought backgrown information for understanding the models derivation. The attached CD-ROM contains all the models necessary for fast solutions. I particually liked the spreadsheet for solving loop components values using K Factor analysis. I don’t know how many times in the last 20 years that I could have used this solver. The real power of this book is access to the author thru his web site. I just e-mailed him my faulty file and he quickly told me how to fix my mistakes. It’s like having an expert on call. The author does a nice job of tying in other well known experts in the field and using their expertise to make this book a complete study in the art of Power Supply loop design.

I got very little out of this book. I think it’s far too shallow to be of any practical use. There is a slight amount of theory in the first two chapters, but after that it’s just a bunch of "recipes" for simulating the various topolgies. These "recipes" don’t contain much useful information. If you’re a beginner, you’ll get lost because so much is left out. If your already an experienced power supply designer, you probably already know everything covered here. The CD has some good demo software, but you can download that stuff yourself for free.

There is a lot of clever advertising surrounding this book, but I found this book utterly useless. I was expecting to see a lot of sample code and examples of the various topologies: buck , boost, forward etc. If you interested in learning the spice language then I recommend one of the books by Muhammad H. Rashid,instead.

The book is simple an easy to follow. The Models alone are worth the price of the book.

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