



Switch-Mode Power Supply SPICE Cookbook

By Christophe P. Basso, Christopher Basso

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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 Basso's SMPS SPICE Cookbook is a complete designer'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 – 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

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Bibliography

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Editorial Review

Review

"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

About the Author

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

Users Review

From reader reviews:

Antoinette Hagen:

Exactly why? Because this Switch-Mode Power Supply SPICE Cookbook is an unordinary book that the inside of the guide waiting for you to snap the idea but latter it will zap you with the secret the idea inside. Reading this book next to it was fantastic author who else write the book in such incredible way makes the content interior easier to understand, entertaining approach but still convey the meaning thoroughly. So , it is good for you for not hesitating having this anymore or you going to regret it. This unique book will give you a lot of positive aspects than the other book have such as help improving your skill and your critical thinking way. So , still want to postpone having that book? If I ended up you I will go to the publication store hurriedly.

Jennifer Day:

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Christina Webb:

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