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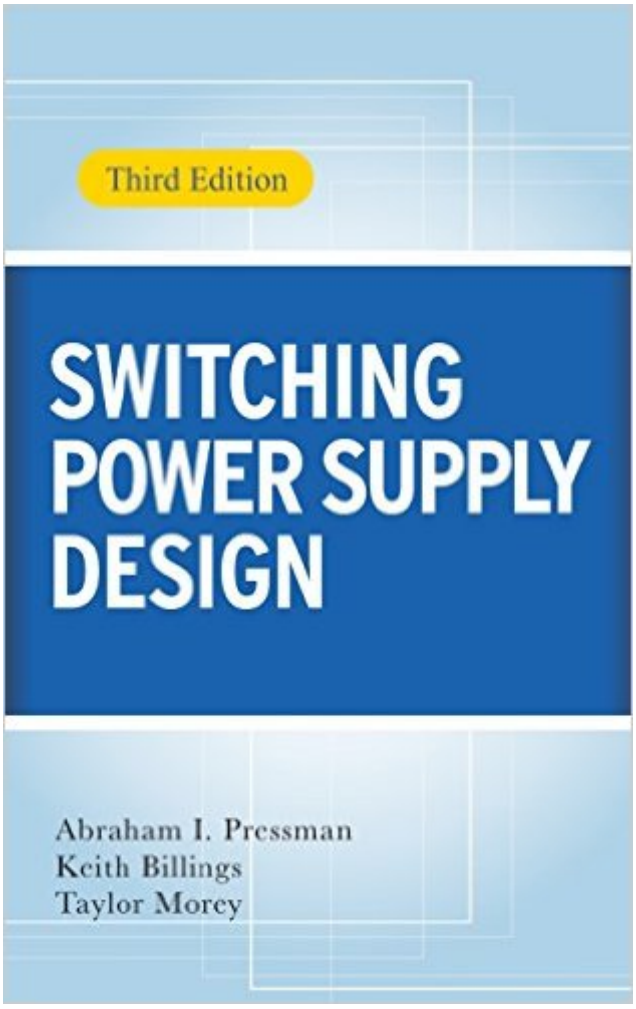
Switching Power Supply Design, 3rd Ed.



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Synopsis

The World’s #1 Guide to Power Supply Design Now Updated!Recognized worldwide as the definitive guide to power supply design for over 25 years, Switching Power Supply Design has been updated to cover the latest innovations in technology, materials, and components. This Third Edition presents the basic principles of the most commonly used topologies, providing you with the essential information required to design cutting-edge power supplies. Using a tutorial, how-and-why approach, this expert resource is filled with design examples, equations, and charts. The Third Edition of Switching Power Supply Design features:Designs for many of the most useful switching power supply topologiesThe core principles required to solve day-to-day design problemsA strong focus on the essential basics of transformer and magnetics design New to this edition: a full chapter on choke design and optimum drive conditions for modern fast IGBTsGet Everything You Need to Design a Complete Switching Power Supply:Fundamental Switching Regulators * Push-Pull and Forward Converter Topologies * Half- and Full-Bridge Converter Topologies * Flyback Converter Topologies * Current-Mode and Current-Fed Topologies * Miscellaneous Topologies * Transformer and Magnetics Design * High-Frequency Choke Design * Optimum Drive Conditions for Bipolar Power Transistors, MOSFETs, Power Transistors, and IGBTs * Drive Circuits for Magnetic Amplifiers * Postregulators * Turn-on, Turn-off Switching Losses and Low Loss Snubbers * Feedback-Loop Stabilization * Resonant Converter Waveforms * Power Factor and Power Factor Correction * High-Frequency Power Sources for Fluorescent Lamps, and Low-Input-Voltage Regulators for Laptop Computers and Portable Equipment

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Customer Reviews

This book is extremely useful, helping the poor soul who had been suddenly thrown in the cold waters of switching power supply design, with no clue where to even start. As other reviewers stated, the late Mr. Pressman deals with the subject by treating each topology as a separate entity instead of taking the more modern, unified approach (see, for example `Switching Power Supplies A-Z' by Sanjaya Maniktala). For someone who just wants to design a flyback converter, for example, its equivalences with the buck-boost converter may not be worth much, but this book is certainly not for the academically inclined.In this third edition of the book, Mr. Billings keeps the original Pressman text virtually intact, and just comments or adds a note here and there, in an attempt to bring the book up to date. Entirely new sections were only added to chapter 7 (magnetic design) and chapter 9 (MOSFETs and IGBTs). I have yet to read chapter 9, so will limit my comments to chapter 7. The added section is very practical, but, unfortunately, poorly proofread. There are numerous typographic errors in formulas, arithmetic errors in calculations, references to wrong figures, different values entered for the same parameter, and so on. There are also repetitions of the same discussion, just a few pages apart from each other, as if to hammer it down. Although the book is written for the practicing engineer and avoids even basic calculus like the plague, I am finding Mr. Billings' approach of just throwing formulas at the reader instead of deriving them from basic electromagnetic theory rather perplexing.

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