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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 topologies

The core principles required to solve day-to-day design problems

A 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 IGBTs

Get 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