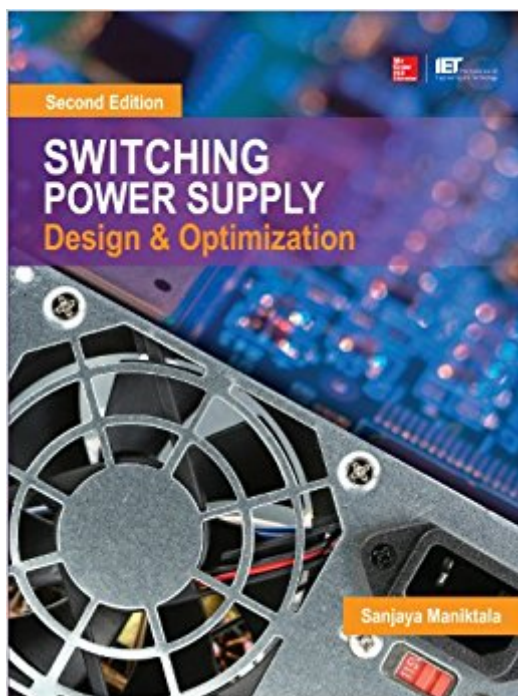The book was found

Switching Power Supply Design And Optimization, Second Edition

Synopsis

The latest techniques for designing state-of-the-art power supplies, including resonant (LLC) converters Extensively revised throughout, Switching Power Supply Design & Optimization, Second Edition, explains how to design reliable, high-performance switching power supplies for today's cutting-edge electronics. The book covers modern topologies and converters and features new information on designing or selecting bandgap references, transformer design using detailed new design charts for proximity effects, Buck efficiency loss teardown diagrams, active reset techniques, topology morphology, and a meticulous AC-DC front-end design procedure. This updated resource contains design charts and numerical examples for comprehensive feedback loop design, including TL431, plus the worldÃ¢â ¬â„¢s first top-down simplified design methodology for wide-input resonant (LLC) converters. A step-by-step comparative design procedure for Forward and Flyback converters is also included in this practical guide. The new edition covers: Voltage references DC-DC converters: topologies to configurations Contemporary converters, composites, and related techniques Discontinuous conduction mode Comprehensive front-end design in AC-DC power conversion Topologies for AC-DC applications Tapped-inductor (autotransformer-based) converters Selecting inductors for DC-DC converters Flyback and Forward converter transformer design Forward and Flyback converters: step-by-step design and comparison PCBs and thermal management Closing the loop: feedback and stability, including TL431 Practical EMI filter design Reset techniques in Flyback and Forward converters Reliability, testing, and safety issues Unraveling and optimizing Buck converter efficiency Introduction to soft-switching and detailed LLC converter design methodology with PSpice simulations Practical circuits, design ideas, and component FAQs

Book Information

X-Ray: Not Enabled

Word Wise: Not Enabled

Lending: Not Enabled

Screen Reader: Supported

Enhanced Typesetting: Enabled

Best Sellers Rank: #553,991 Paid in Kindle Store (See Top 100 Paid in Kindle Store)   #12 inÃ Â Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Electrical & Electronics > Solid State   #26 inÃ Â Kindle Store > Kindle eBooks > Engineering & Transportation > Engineering > Electrical & Electronics > Semiconductors   #33 inÃ Â Books > Engineering & Transportation > Engineering > Electrical & Electronics > Electronics > Solid State

Customer Reviews

This book spends almost 150 pages detailing each and every concept related to magnetic design for flyback, forward converter. Shows how to calculate inductors for DC-DC converters. The author shows step by step formula to calculate the precise core size, wire guage, air gap etc. He also compares his practically implemented formula with the industry formulae used to calculate precise core size, wire guages etc. I enjoyed reading it. By far the best book on magnetics which takes each and every issue into consideration (proximity,skin effect, fringing effect etc). Showed a complete table of different magnetic core manufacturers, their dimensions, gap etc. He also showed how to reduce core losses by varying the parameters such as Volume of the core, area of the core. length of the core and their effect on core losses. The textbook also has a very decent section on selection of PFC holdup time capacitor value which is usually a very complex topic and plenty of formulae exist which result in different values. But, this author has given a table which can be used to select the capacitor value, RMS current value right from the table. This is very good. The chapter on reliability/Safety is also very good. This is required for high volume production. I would definitely recommended this textbook to all levels of expertise.

this book explains the concept clearly with plenty of examples, drawings and waveforms. However, it tends to be verbose on certain subjects.

This outstanding book picks up where the other books leave off. Not intended for beginners. The section on magnetics is absolutely fantastic and very different from other books.

This book gives a lot of good perspective on power electronics and always make it easy to connect real world design and theory. Good reference book to keep in the shelves if youre a powe engineer

Bought it for my dad so hoping it would be good.

Fantastic!

All OK

I've read this book at least two times in its entirety and also read it several times for references in places I've marked out for my personal use. When troubleshooting my PC or anyone's PC I first check the power Supply to see if the current is flowing and to see if the fan is working, here is where this book comes in very handy for me. I referenced several info from the book and did my troubleshooting exactly as the author described and it has helped me to isolate certain resistors, capacitors etc which I thought was working good when in fact it was faulty.In one of his NOTE he mentions this on "resistors

Switching Power Supply Design and Optimization, Second Edition Switching Power Supply Design, 3rd Ed. (Electronics) Engineering Design Optimization using Calculus Level Methods: A Casebook Approach: Math Modeling, Simulation, & Optimization The Little Book on Digital Marketing SEO - Search Engine Optimization: Tips and tricks for keyword research in SEO or Search Engine Optimization Introduction to Linear Optimization (Athena Scientific Series in Optimization and Neural Computation, 6) Pyomo Ã¢ ¬â ¢ Optimization Modeling in Python (Springer Optimization and Its Applications) Power Supplies Switching Regulators, Inverters, and Converters Troubleshooting Switching Power Converters: A Hands-on Guide Solar Power: The Ultimate Guide to Solar Power Energy and Lower Bills: (Off Grid Solar Power Systems, Home Solar Power System) (Living Off Grid, Wind And Solar Power Systems) Power Training: For Combat, MMA, Boxing, Wrestling, Martial Arts, and Self-Defense: How to Develop Knockout Punching Power, Kicking Power, Grappling Power, and Ground Fighting Power Power Pivot and Power BI: The Excel User's Guide to DAX, Power Query, Power BI & Power Pivot in Excel 2010-2016 Supply Chain Transformation: Building and Executing an Integrated Supply Chain Strategy Supply Chain Management: Fundamentals, Strategy, Analytics & Planning for Supply Chain & Logistics Management Supply Chain Management for the Curious: Why Study Supply Chain Management? Supply Chain

Management: Strategy, Operation & Planning for Logistics Management (Logistics, Supply Chain Management, Procurement) Common Sense Supply Management: Tales From The Supply Chain Trenches Sound Systems: Design and Optimization: Modern Techniques and Tools for Sound System Design and Alignment Graphic Design Success: Over 100 Tips for Beginners in Graphic Design: Graphic Design Basics for Beginners, Save Time and Jump Start Your Success (graphic ... graphic design beginner, design skills) Fundamentals of Power Supply Design CCNA Routing and Switching Portable Command Guide (ICND1 100-105, ICND2 200-105, and CCNA 200-125)