



Optimal Design of Switching Power Supply

By Zhanyou Sha, Xiaojun Wang, Yanpeng Wang, Hongtao Ma



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A contemporary evaluation of switching power design methods with real world applications

- Written by a leading author renowned in his field
- Focuses on switching power supply design, manufacture and debugging
- Switching power supplies have relevance for contemporary applications including mobile phone chargers, laptops and PCs
- Based on the authors' successful "Switching Power Optimized Design 2nd Edition" (in Chinese)
- Highly illustrated with design examples of real world applications

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Editorial Review

From the Back Cover

One of the important advantages of a switched-mode power supply is its high-power conversion efficiency as it minimizes the power dissipated during power transmission. Switched-mode power supplies may also be substantially smaller and lighter than a linear supply owing to the smaller transformer size and weight. In recent years, with the increasing demand placed on the modern power technology market, the urgency for optimal design of the switching power supply has become apparent.

This book aims to provide readers with detailed switching power-optimized design methods and implementation approaches, focusing on key peripheral component characteristics and selection methods, the design of power factor correction circuits, and high-frequency transformers. Other topics of interest include the optimization instance, design note, measurement technology, and protection circuit design for switching power supply.

- Written by a leading author renowned in this field
- Focuses on switching power supply design, manufacture, and debugging
- Highly illustrated with design examples of real-world applications
- Features a companion website with practical software to help readers better understand switching power supply design and simulation

Optimal Design of Switching Power Supply is particularly useful for engineers and technicians working on switching power supply design, manufacture, and operation. It is also essential reading for academics and graduate students in power electronics courses.

About the Author

Zhanyou Sha, Xiaojun Wang, Yanpeng Wang, Hongtao Ma *Hebei University of Science and Technology, China*

Users Review

From reader reviews:

Tonia Jensen:

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