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How Does a
Switching Power
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(schematic,
explanation, example,
modifications)Switch
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Design using an
Isolated Flyback
Topology

Recommended Books
on Switch Mode

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Power supplies *How to Test Switch Mode Power Supplies with an Oscilloscope* Let's Play! ~~Let's design and build a switching power supply :) Linear vs. switching power supplies~~ *Power Supply Troubleshooting and Repair Tips*

Easy way How to test Capacitors, Diodes,

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and cold side of a
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given by the switch controller manufacturers' design tool, but that the selection of optimal power inductor and switching frequency requires further evaluation.

Designing and
Maximizing Switch-
Mode Efficiency of

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Overview On
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Power Supply Smps

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smps is known as a
highly energy efficient
power supply
characterized by high
efficiency small
volume light weight
and wide application it
has become the

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The latest techniques
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new edition covers:
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DC-DC converters:
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related techniques
Discontinuous
conduction mode
Comprehensive front-

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power conversion
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inductor (autotransfor-
mer-based)
converters Selecting
inductors for DC-DC
converters Flyback
and Forward
converter transformer
design Forward and
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full chapter on choke
design and optimum
drive conditions for
modern fast IGBTs

Get Everything You
Need to Design a
Complete Switching
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* Push-Pull and

Forward Converter

Topologies * Half- and

Full-Bridge Converter

Topologies * Flyback

Converter Topologies

* Current-Mode and

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Topologies *

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Topologies *

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Optimum Drive

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Power Transistors,

MOSFETs, Power

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on, Turn-off Switching

Losses and Low Loss

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Take the "black magic" out of switching power

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the theory behind,
and design of, PWM
and resonant
switching supplies.
You'll find information
on switching supply
operation and
selecting an
appropriate topology

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There's extensive coverage of buck, boost, flyback, push-pull, half bridge, and full bridge regulator circuits. Special attention is given to semiconductors used in switching supplies. RFI/EMI reduction, grounding, testing, and safety standards are also detailed.

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