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Edition Spice

Power Supplies
Practical Designs
Second Edition

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Simulations

And Practical

Designs

Electronics

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Supplies Second

*professionals will
find this book*

Edition Spice
Simulations And
Practical Designs

*invaluable when
designing power*

*equipment, because
it describes in detail
how to cope with the
problem of*

*electromagnetic
interference. The
author shows how to
meet the exacting
US and European*

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*EMC standards for
conducted
emissions. The book
includes a wide
range of EMI
analysis techniques.
An important focus
is on the energy
content of
interference
transient signals
(traditional analysis
concentrates on*

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*amplitude and
frequency). This
provides a more
accurate picture of
the EMI situation.*

*For those who do
not want or need
detailed analysis
techniques, many
approximation
methods are also
provided. These
simplified*

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*techniques give
accurate results for
all but the most
stringent
applications. The
book contains
several worked
examples and an
extensive
bibliography, and is
sure to be useful to
electronic design
engineers and*

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*Supplies Second
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*others who need to
meet international
EMC regulations
and standards.*

*Laszlo Tihanyi has
worked on EMC for
over 20 years.*

*Formerly Head of
the Department of
Power Electronics at
the Hungarian
Research Institute
for the Electrical*

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Industry, he focused primarily on solving EMI problems in electronic systems and developing a dimensioning method for power line filters.

Loop control is an essential area of electronics engineering that today's

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*professionals need
to master. Rather
than delving into
extensive theory,*

*this practical book
focuses on what you
really need to know
for compensating or
stabilizing a given
control system. You
can turn instantly to
practical sections
with numerous*

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Practical Designs*

*design examples
and ready-made
formulas to help you
with your projects in
the field. You also
find coverage of the
underpinnings and
principles of control
loops so you can
gain a more
complete
understanding of the
material. This*

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*authoritative volume
explains how to
conduct analysis of
control systems and
provides extensive
details on practical
compensators. It
helps you measure
your system,
showing how to
verify if a prototype
is stable and
features enough*

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*Supplies Second
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Practical Designs*
design margin.

*Moreover, you learn
how to secure high-
volume production
by bench-verified
safety margins.*

*Power electronics,
which is a rapidly
growing area in
terms of research
and applications,
uses modern
electronics*

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Practical Designs

*technology to
convert electric
power from one form
to another, such as
ac-dc, dc-dc, dc-ac,
and ac-ac with a
variable output
magnitude and
frequency. Power
electronics has
many applications in
our every day life
such as air-*

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conditioners, electric cars, sub-way trains, motor drives, renewable energy sources and power supplies for computers. This book covers all aspects of switching devices, converter circuit topologies, control techniques, analytical methods

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and some examples
of their applications.

** 25% new content **

*Reorganized and
revised into 8
sections comprising
43 chapters **

*Coverage of
numerous
applications,
including
uninterruptable
power supplies and*

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*automotive electrical
systems * New
content in power
generation and
distribution,
including solar
power, fuel cells,
wind turbines, and
flexible transmission*

*Chapter 1: The
Principles of
Switching Power
Conversion Chapter*

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*2: DC-DC Converter
Design and*

Magnetics Chapter

*3: Off-line Converter
Design and*

Magnetics Chapter

4: The Topology

FAQ Chapter 5:

Optimal Core

Selection Chapter 6:

*Component Ratings,
Stresses, Reliability*

and Life Chapter 7:

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*Optimal Power
Components*

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Selection Chapter 8:

Conduction and

Switching Losses

Chapter 9:

Discovering New

Topologies Chapter

10: Printed Circuit

Board Layout

Chapter 11: Thermal

Management

Chapter 12:

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Feedback Loop

Analysis and

Stability Chapter 13:

Paralleling,

Interleaving and

Sharing Chapter 14:

The Front-End of AC-

DC Power Supplies

Chapter 15: *DM and*

CM Noise in

Switching Power

Supplies Chapter

16: Fixing EMI

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across the Board
Chapter 17: Input
Capacitor and
Stability Chapter 18:
The Math behind the
Electromagnetic
Puzzle Chapter 19:
Solved Examples
Appendix A.

TEXTBOOK OF
COMPUTER
SCIENCE FOR
CLASS XI

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*Designing with
SPICE 3
Switching Power
Supplies
Power Supply
Cookbook
Testing,
Characterization,
and Environmental
Regulations
Digital Design for
Interference
Specifications*

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A handbook on the
theory and
application of
switched-mode
power supplies.

Presents all
important
established
techniques and
includes many
detailed examples,
using manufacturer's
actual data sheets.

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Practical Designs

Covers design and use of DC-to-DC power converter circuits, non-isolated DC-to-DC converters, IC controllers for switched-mode power converters, and isolated power converters. Also discusses the radio frequency interface

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and addresses

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electromagnetic

Simulations, And
compatibility

Practical Designs
problems. A special

chapter examines

characteristics,

circuits, and

peculiarities of many

of the integrated

drive circuits

currently available.

The definitive guide

to switchmode power

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supply design--fully
updated Covering
the latest
developments and

techniques,
Switchmode Power
Supply Handbook,
third edition is a
thorough revision of
the industry-leading
resource for power
supply designers.

New design methods

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required for
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powering small, high-
performance
Simulations And

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electronic devices are
presented. Based on
the authors' decades
of experience, the
book is filled with
real-world solutions
and many
nomograms, and
features simplified
theory and

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Simulations And
Practical Designs
mathematical
analysis. This
comprehensive
volume explains

common
requirements for
direct operation
from the AC line
supply and discusses
design, theory, and
practice.

Engineering
requirements of

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Supplies, Second

switchmode systems
and

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Simulations And

Practical Designs

recommendations for
active power factor

correction are

included. This

practical guide

provides you with a

working knowledge

of the latest

topologies along with

step-by-step

approaches to

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Practical Designs

component decisions
to achieve reliable
and cost-effective
power supply
designs. Switchmode
Power Supply
Handbook, third
edition covers:
Functional
requirements of
direct off-line
switchmode power
supplies Power

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components selection
and transformer
designs for converter
circuits

Transformer, choke,
and thermal design
Input filters, RFI
control, snubber
circuits, and
auxiliary systems
Active power factor
correction system
design Worked

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examples of would
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components

Simulations And
Examples of fully
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resonant and quasi-

resonant systems A
resonant inverter
fluorescent ballast

An example of high-
power phase shift
modulated system A

new MOSFET
resonant inverter

drive scheme A

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single-control, wide-range wave oscillator
This book is a crash course in the fundamental theory, concepts, and terminology of switching power supplies. It is designed to quickly prepare engineers to make key decisions about power supplies

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for their projects. Intended for readers who need to quickly understand the key points of switching power supplies, this book covers the 20% of the topic that engineers use, 80% of the time. Unlike existing switching power supply books that deal strictly with

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design issues, this book also recognizes the growing importance of "off-the-shelf" commercial switching power supplies, giving readers the background necessary to select the right commercial supply. This book

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covers the core
Edition, Spice
essential of power
Simulations And
supply theory and
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design while keeping
mathematics to the
absolute minimum
necessary. Special
attention is given to
the selection of
appropriate
components, such as
inductors and
transformers, to

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ensure safe and
reliable operation.
Engineers, whose
main design

responsibilities are in
other areas, will
better understand
the strengths and
weaknesses of
switching power
supplies and whether
such supplies are
appropriate for their

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projects. They will be able to give more meaningful design requirements and specifications to those who design switching power supplies. * Discusses both AC line supplies and DC-DC inverters. * Covers the main switching power supply

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designs, including flyback, forward conversion, bridge, buck, boost, and boost/buck

topologies. * Design examples include a 220 volt offline switching power supply and a 110 volt uninterruptible supply.

Of the "big three"

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components of
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electrical

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Practical Designs

infrastructure,
distribution typically
gets the least
attention. In fact, a
thorough, up-to-date
treatment of the
subject hasn't been
published in years,
yet deregulation and
technical changes
have increased the

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need for better
Edition Spice
information. Filling
Simulations And
this void, the Electric
Practical Designs
Power Distribution

Handbook delivers
comprehensive,
cutting-edge
coverage of the
electrical aspects of
power distribution
systems. The first
few chapters of this
pragmatic guidebook

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focus on equipment-oriented information and applications such as choosing transformer connections, sizing and placing capacitors, and setting regulators. The middle portion discusses reliability and power quality, while the end tackles

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lightning protection,
grounding, and
safety. The Second
Edition of this
CHOICE Award
winner features: 1
new chapter on
overhead line
performance and 14
fully revised
chapters
incorporating
updates from several

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EPRI projects New
sections on voltage
optimization, arc
flash, and contact
voltage Full-color
illustrations
throughout, plus
fresh bibliographic
references, tables,
graphs, methods,
and statistics
Updates on
conductor

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burndown, fault
location, reliability
programs, tree
contacts, automation,
and grounding and
personnel protection
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of tips and solutions
for improving
performance, the
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Edition provides
power and utility
engineers with the
technical
information and
practical tools they

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need to understand
the applied science of
distribution.

Switched-Mode
Power Supplies in
Practice
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and Practical
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Practical Switching
Power Supply Design
Switch-Mode Power
Supply Simulation:
Designing with
SPICE 3 : Designing
with SPICE 3
Ready-made SPICE
power supply solutions
Now you can get
solutions to the most

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difficult problems
facing power supply
designers: shrinking size
and increased thermal
constraints. Christophe
Basso's SMPS SPICE
Cookbook is a complete
designer's toolkit with
tested, ready-to-run
SPICE models on an
accompanying CD-
ROM. The models come
in all three SPICE
flavors with demo

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modeled. Just turn to the CD, pull out the model in the flavor of SPICE you use, plug in your own values – and out comes a design solution. All the models in the book have been carefully simulated and tested. A special website even lets you access new models that will be posted on a continuing basis

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Take the "black magic"
out of switching power
supplies with Practical
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Supply Design! This is a
comprehensive "hands-
on" guide to 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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for your application.

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. Numerous

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design examples and
equations are given and
discussed. Even if your

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logic or microprocessor

engineering, you'll be

able to design a power

supply that's right for

your application with

this essential guide and

reference! Gives special

attention to resonant

switching power

supplies, a state-of-the-

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art trend in switching
power supply design

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Approaches switching
power supplies in an
organized way

beginning with the
advantages of switching
supplies and thier basic
operating principles

Explores various
configurations of pulse
width modulated
(PWM) switching
supplies and gives

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readers ideas for the
direction of their
designs Especially
useful for practicing
design engineers whose
primary specialty is not
in analog or power
engineering fields
Based on over twenty
years of hands-on
experience with
electromagnetic
interference (EMI),
Digital Design for

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Interference Specifications provides circuit designers concrete rules that can be applied immediately to the design of new digital products. The authors' techniques emphasize EMI source suppression at the printed circuit board level and considers shielding only as a last resort. The material is

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written in a how-to
format with brief
qualitative explanations
of why or how design
recommendations
suppress emissions or
reduce susceptibility.
The described
approaches toward
design and prevention of
EMI will save
manufacturers time,
product cost, and
enhance

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manufacturability. Best of all, designers will not have to be EMI gurus to implement these processes but they will definitely look like experts when the final outcome is assessed.

Digital Design for
Interference

Specifications is a very well written book targeted directly toward circuit designers and

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EMI professionals. The
authors built a

consulting company out
of the knowledge
Practical Designs

presented in the book
working with a huge list
of clients over the years.

The material is written
to directly apply to
circuit designers'
projects helping them
save money and time on
each design. The book is
heavily and clearly

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illustrated. A practical,
hands-on guide to EMI
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circuit designers for use
by circuit designers.

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The latest techniques for
designing state-of-the-
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including resonant
(LLC) converters

Extensively revised

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throughout, Switching
Power Supply Design &
Optimization, Second
Edition, explains how to
design reliable, high-
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power supplies for
today's cutting-edge
electronics. The book
covers modern
topologies and
converters and features
new information on
designing or selecting

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bandgap references,
transformer design

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using detailed new

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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

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examples for
comprehensive feedback
loop design, including
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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

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edition covers: Voltage
references DC-DC

converters: topologies to
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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-

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inductor

(autotransformer-based)

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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

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TL431 Practical EMI
filter design Reset

Simulation Spice
techniques in Flyback

and Forward converters

Practical Design
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

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Power Electronics
Handbook
Refiners' efforts to conform to increasingly stringent laws and a preference for fuels derived from renewable sources have mandated changes in fluid cracking catalyst technology.

Advances in Fluid

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Characterization, And
Practical Designs

Regulations explores
recent advances and
innovations in this
important component
of petr

"Electrostatic
Precipitation"

includes selected
papers presented at
the 11th

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International
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presents the newest
developments in
electrostatic
precipitation, flue
gas desulphurization
(FGD), selective
catalytic reduction
(SCR), and non-
thermal plasma
techniques for multi-

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pollutants emission
control. Almost all
outstanding
scientists and
engineers world-wide
in the field will
report their on-going
researches. The book
will be a useful
reference for
scientists and
engineers to keep
abreast of the latest
developments in

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Devices and Systems
of Relay Protection
brings relay
protection and
electrical power
engineers a single,
concentrated source
of information on
auxiliary power
supply systems and

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devices. The book
also tackles specific
problems and
solutions of relay
protection power
supply systems and
devices, which are
often not dealt with
in the literature. The
author, an
experienced
engineer with more
than 100 patents,
draws on his own

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experience to offer
practical, tested
advice to readers. A

Guide to Relay

Protection Power

Supply for Engineers

and Technicians The

first chapter reviews

the electronics and

primary elements of

the system, including

transistors,

thyristors,

optocouplers, logic

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elements, and relays,
and their principles
of operation. This
background gives
staff who service
relay protection
power supply
systems the
necessary electronics
knowledge to help
them work more
effectively with the
equipment. The next
chapters of the book

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then cover built-in
digital protection
relay power supplies,
battery chargers,
accumulator
batteries,
uninterruptible
power supply, and
characteristic
features of auxiliary
DC systems at
substations and
power plants. The
final chapters discuss

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These include insulation problems, issues in auxiliary DC power supply such as voltage dips, and electromagnetic disturbances such as blackouts, spikes, and surges. The author also explains

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how to address them.
Suitable for
beginners and
experienced
engineers alike, the
book is written for
those who work with
relay protection
systems and with AC
and DC auxiliary
power systems in
power plants and
substations. It
combines theory and

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practical
recommendations to
provide a valuable
reference on power
supply devices and
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CREATING STATE-
OF-THE-ART
SWITCHMODE
POWER SUPPLIES
Fully updated to

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incorporate new
SPICE features and
capabilities, this
practical guide
explains, step by
step, how to
simulate, test, and
improve switch-mode
power supply
designs. Detailed
formulas with
founding equations
are included. Based
on the author's

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continued research
and in-depth,

handson work in the
field, this revised

resource offers a

collection of the

latest SPICE

solutions to the most
difficult problem

facing power supply

designers: creating

smaller, more heat-
efficient power

supplies in shorter

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Complete analysis of
rms currents for the
three basic cells in
CCM and DCM PWM
switch at work in the
small-signal analysis
of the DCM boost
and the QR flyback
OTA-based
compensators

Complete transistor-
level TL431 model

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Small-signal analysis
of the borderline-
operated boost PFC
circuit operated in
voltage or current
mode All-over power
phenomena in QR or
fixed-frequency disco-
ntinuous/continuous
flyback converters
Small-signal model of
a QR flyback
converter Small-
signal model of the

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converters * Off-line
converters * Flyback
converters * Forward
converters * Power
factor correction

A Practical
Handbook for EMI
Suppression
Industrial

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Edition Spice
Control Systems II
19th International
Workshop, PATMOS
2009, Delft, The
Netherlands,
September 9-11,
2009, Revised
Selected Papers
Switch-Mode Power
Supplies Spice
Simulations and
Practical Designs
Principles and

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Simulation And
Electrostatic
Precipitation,
Hangzhou, 2008

**When designing
switch-mode power
supplies (SMPSs),
engineers need much
more than simple
"recipes" for
analysis. Such plug-**

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Edition Spice
Simulations And
Practical Designs

**and-go instructions
are not at all helpful
for simulating larger
and more complex
circuits and systems.
Offering more than
merely a
"cookbook,"
Practical Computer
Analysis of Switch
Mode Power
Supplies provides a
thorough**

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Practical Designs

**understanding of the
essential
requirements for
analyzing SMPS
performance
characteristics. It
demonstrates the
power of the circuit
averaging technique
when used with
powerful computer
circuit simulation
programs. The book**

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Simulation, And
Practical Designs

begins with SMPS
fundamentals and
the basics of circuit
averaging models,

reviewing most basic
topologies and

explaining all of their
various modes of
operation and

control. The author
then discusses the
general analysis
requirements of

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**power supplies and
how to develop the
general types of
SMPS models,
demonstrating the
use of SPICE for
analysis. He
examines the basic
first-order analyses
generally associated
with SMPS
performance along
with more practical**

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Simulations And
Practical Designs

**and detailed methods
for developing SMPS
and component
models. The final
chapter features the
circuit-averaging
macromodel of the
integrated circuit
PWM controller
illustrated through
analyses of three
power supplies.**

Practical Computer

Page 91/181

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Edition, Spice
**Analysis of Switch
Mode Power**

**Supplies builds a
strong foundation on
the principles of
SMPS analysis,
enabling further
development and
advancement of the
techniques while
supplying
meaningful insight
into the process.**

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Simulations And

Practical Designs

**Welcome to the
proceedings of the
19th International
Workshop on Power
and**

**Timing Modeling, Op
timization and Simula
tion, PATMOS2009.**

**Over the years, PAT
MOS has evolved into a
n important European
event, where research
ers from both**

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Simulations And
Practical Designs

**industry and
academia discuss
and investigate the
emerging challenges
in future and
contemporary
applications, design
methodologies, and
tools required for the
development of the
upcoming
generations of
integrated circuits**

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and s- tems.

PATMOS 2009 was
organized by TU

Delft, The

Netherlands, with sp-
sorsorship by the

NIRICT Design Lab
and Cadence Design

Systems, and

technical co-sponsors
hip by the IEEE. Furth

er information aboutt
he workshop is availab

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le at [http://ens.ewi.tu
delft.nl/patmos09](http://ens.ewi.tu
delft.nl/patmos09).

The technical
program of PATMOS
2009 contained state-
of-the-art technical
contributions, three
invited keynotes, and
a special session on
SystemC-AMS
Extensions. The
technical program
focused on timing,

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Practical Designs

**performance, and
power consumption,
as well as
architectural aspects
with particular
emphasis on m-
eling, design,
characterization,
analysis, and
optimization in the
nanometer era. The
Technical Program
Committee, with the**

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Practical Designs**

**assistance of
additional expert
reviewers, selected
the 36 papers
presented at
PATMOS. The
papers were -
ganized into 7 oral
sessions (with a total
of 26 papers) and 2
poster sessions (with
a total of 10 papers).
As is customary for**

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Simulations, And

Practical Designs

**the PATMOS
workshops, full
papers were required
for review, and a
minimum of three
reviews were
received per
manuscript.**

**This comprehensive
reference/text
explains the
development and
principles of**

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Edition Spice
Simulations And
Practical Designs**

**operation, modelling,
and analysis of
switch-mode power
supplies
(SMPS)-highlighting
conversion
efficiency, size, and
steady state/transient
regulation characteri
stics.;Covering the
practical design
techniques of
SMPS,this book -**

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Simulations And
Practical Designs

**reveals how to
develop specific
models of circuits
and components for
simulation and
design purposes;
explains both the
computer simulation
of the switching
behaviours of dc-to-
dc converters and
the modelling of
linear and nonlinear**

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circuit components;

deals with the

modelling and

**simulation of the low-
frequency**

behaviours of

converters (including

current-controlled

converters and

converters with

multiple outputs)

and regulators;

describes computer-

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Simulations, And
Practical Designs

**aided design (CAD)
techniques as applied
to converters and
regulators;**

**introduces the
principles and design
of quasi-resonant
and resonant
converters; provides
details on SPICE, a
circuit simulator
package used to
calculate electrical**

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Simulations And
Practical Designs

circuit behaviour.;Co
ntaining over 1000
helpful drawings,
equations, and
tables, this is a
valuable reference
for circuit design,
electrical, and
electronics engineers,
and serves as an
excellent text for
upper-level
undergraduate and

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**graduate students in
these disciplines.**

**Offers exceptional
breadth of coverage
without sacrificing
depth and does not
restrict itself solely to
theory at the expense
of practical
applications, which
are emphasised
throughout. Suitable
for HND and**

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undergraduate
Edition, Spice

students, the
Simulations And
coverage and

Practical Designs
approach is relevant

for specialist and non-
specialist engineers.

Important topics

include

electromagnetic

compatibility in view

of recent EU

legislation. Solutions

to Problems book

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lecturers.

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Loops for Linear and
Switching Power

Supplies

Electric Power

Distribution

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Electronic and

Electrical

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Engineering
Electronic and
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Engineering,
Solutions
Manual(S/M) second
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Circuit Design,
Layout, and
Simulation
A master-class in
power supply
design through**

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Practical Designs

**circuit simulation
This book/CD-ROM
package covers
every essential
aspect of power
supply design
simulation and
fully explains the
fundamentals of
SPICE 3 simulation
techniques. CD-
ROM contains
SPICE3 and ISPICE
simulation models**

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Simulation And
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**and examples from
the book, allowing
easy customization**

**A revised guide to
the theory and
implementation of
CMOS analog and
digital IC design**

**The fourth edition
of CMOS: Circuit
Design, Layout,
and Simulation is
an updated guide
to the practical**

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Synthesis And
Practical Designs

The author—a

**noted expert on
the topic—offers a**

**contemporary
review of a wide**

**range of
analog/digital**

circuit blocks

**including: phase-
locked-loops, delta-**

sigma sensing

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circuits,
Edition Spice
voltage/current
Simulations And
references, op-
Practical Designs
amps, the design
of data converters,
and switching
power supplies.
CMOS includes
discussions that
detail the trade-
offs and
considerations
when designing at
the transistor-

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**level. The
companion website
contains numerous
examples for many
computer-aided
design (CAD) tools.
Using the website
enables readers to
recreate, modify,
or simulate the
design examples
presented
throughout the
book. In addition,**

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Simulation And
Practical Designs

**the author includes
hundreds of end-of-
chapter problems
to enhance
understanding of
the content
presented. This
newly revised
edition: • Provides
in-depth coverage
of both analog and
digital transistor-
level design
techniques •**

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**Discusses the
design of phase-
and delay-locked
loops, mixed-signal
circuits, data
converters, and
circuit noise •**

**Explores real-world
process
parameters, design
rules, and layout
examples •**

**Contains a new
chapter on Power**

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And
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engineering and
professionals in
the field, the
fourth edition of
**CMOS: Circuit
Design, Layout,
and Simulation** is a
practical guide to
understanding
analog and digital

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**transistor-level
design theory and
techniques.
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reviewed papers
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International
Conference on
Measurement,
Instrumentation
and Automation
(ICMIA 2013), April
23-24, 2013,**

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Edition, Guilin, China.

Volume is indexed
by Thomson And

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Electricity
Instruments;
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and Navigation

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Chapter 5:
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Chapter 6:

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**Systems and
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Designs is a
comprehensive
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founding equations
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Converters-The
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**Design of Isolated
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3/E
Switching Power
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converters in a
systematic and
rigorous manner
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power converters
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sample codes are
provided Enables
readers to
successfully analyze,

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model, design, and
implement voltage,
current, or multi-
loop digital feedback
loops around
switched-mode
power converters
Practical examples
are used throughout
the book to illustrate
applications of the
techniques

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framework for a
wide variety of
power supplies. With
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design, and
EMI / RFI control
are all described in
simple language and
design steps. This
book also details
easy-to-modify
design examples that
provide the reader
with a design
template useful for
creating a variety of

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power supplies. This newly revised edition is a practical, "start-to-finish" design

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new edition include
updated information
on the design of the
output stages,
selecting the
controller IC, and
other functions
associated with
power supplies, such
as: switching power
supply control,
synchronization of

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the power supply to
an external source,
input low voltage
inhibitors, loss of
power signals,
output voltage shut-
down, major current
loops, and
paralleling filter
capacitors. It also
offers coverage of
waveshaping

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techniques, major
loss reduction
techniques,
snubbers, and quasi-
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framework for a
wide variety of
power supplies,
many of which can

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be designed in less
than one day

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understand

information about
often complicated

topics, making

power supply design

a much more

accessible and

enjoyable process

The Electricity

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Sector is currently experiencing many changes -impact of high-end

technologies, privatization of the power utilities, rising tariffs, power shortages, etc. The sector is reinventing itself to overcome these challenges and

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is anticipating
growth with the
institution of the
electricity reforms

and the entry of
private companies.

Written by an highly
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practitioner, Electric
Power Distribution,
dwells on these and
covers the subject in

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its entirety. With this fifth edition, the book celebrates its 22nd anniversary - a testimony to the vast readership as well as the changes being experienced in this sector. Changes in this edition: Web-supplement including: Chapter

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summaries Solutions
and hints to
problems and much
more website: tatam

cgrawhill.com/digita
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have been further
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Power Quality

Metering Tarrifs and
Billing Electricity

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Replacement of

Ageing Equipment

With this coverage,

this book would be

useful to the

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engineers in the
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companies, as well as
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filled with design
examples, equations,
and charts. The
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many of the most
useful switching
power supply
topologies The core
principles required

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to solve day-to-day
design problems. A
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magnetics design.
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choke design and
optimum drive
conditions for
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Pull and Forward
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and Full-Bridge
Converter

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Topologies * Flyback
Converter

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Bipolar Power
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* Postregulators *
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Snubbers *
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High-Frequency
Power Sources for
Fluorescent Lamps,
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Precipitation
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Transfer Functions
of Switching
Converters
Power-Switching
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Some power
electronic converters
are specifically

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designed to power
equipment under a
smoothed DC voltage.
Therefore, the
filtering part
necessarily involves
the use of auxiliary
passive components
(inductors and
capacitors). This book
deals with technical
aspects such as
classical separation
between isolated and

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non-isolated power
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supplies, and soft

switching through a
Simulation And
special converter. It
Practical Designs

addresses the

problem of regulating

the output voltage of

the switching power

supplies in terms of

modeling and

obtaining transfer of

SMPS functions.

Power Electronics for

Industry and

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Transport, Volume 3,
offers a case study of
an isolated flyback
power which the
complete design is
presented: the active
and passive
components are sized
based on the
specifications initially
set. Particular
attention is given to
the converter output
capacitors and all the

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surrounding organs.
Introducing Essential
notions in power
electronics from both
the theoretical and
technological
perspectives Detailed
chapters with a focus
on switch-mode
power supplies,
another key area in
which power
electronics is used is
in the supply of

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energy to a variety of
electronic equipment
for signal and
information
processing Presented
from a user's
perspective to enable
you to apply the
theory of power
electronics to
practical applications
After nearly a decade
of success owing to
its thorough

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of simulation and
design, Power-
Switching Converters
enters its second
edition with new and
updated material,
entirely new design
case studies, and
expanded figures,
equations, and

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homework problems.

This textbook is ideal for senior undergraduate or graduate courses in power electronic converters, requiring only systems analysis and basic electronics courses. The only text of such detail to also include the use of PSpice and step-by-step designs and

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simulations, Power-Switching Converters, Second Edition covers basic topologies, basic control techniques, and closed-loop control and stability. It also includes two new chapters on interleaved converters and switched capacitor converters, and the

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authors have added
discrete-time
modeling to the
dynamic analysis of
switching converters.

The final two
chapters are
dedicated to
simulation and
complete design
examples,
respectively. PSpice
examples and
MATLAB scripts are

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teaches readers how
to determine transfer
functions of switching
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commonly
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consumer and
industrial markets.

The book starts with
a smooth introduction
to switching cells,
going into the details
of the first steps of
linearization and
small-signal
modulation. You will
then learn how the
PWM switch model
was derived and how
to apply it to the

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basic structures
operated in fixed
switching frequency
and various operating
conditions like
continuous and
discontinuous modes
in voltage- or current-
mode control. The
model is extended to
other control
schemes like quasi-
resonance, constant
on- and off-time

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converters, all with an associated small-signal version. The following chapters explore the founding structures like the buck, the boost and buck-boost cells, later covering their isolated versions like forward or flyback converters. The last chapter deals with more complicated

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structures like uk,
Zeta, SEPIC and LLC.

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