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Pulse Width Modulated Dc Dc Power Converters

This book offers
a general
approach to
pulse width
modulation
techniques and
multilevel

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inverter topologies. The multilevel inverters can be approximately compared to a sinusoidal waveform because of their increased number of direct current voltage levels, which provides an

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opportunity to eliminate harmonic contents and therefore allows the utilization of smaller and more reliable components. On the other side, multilevel inverters require more components than

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traditional inverters and that increases the overall cost of the system. The various algorithms for multilevel neutral point clamped inverter fed induction motor are proposed and implemented, and

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the results are analyzed. The performance of these algorithms is evaluated in terms of inverter output voltage, current waveforms and total harmonic distortion.

Various basic pulse width modulation

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techniques,
features and
implementation
of space vector
pulse width
modulation for a
two-level
inverter, and
various
multilevel
inverter
topologies are
discussed in
detail. This

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book is
extremely useful
for
undergraduate
students,
postgraduate
students,
industry people,
scientists of
research
laboratories and
especially for
the research
scholars who are

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working in the
area of
multilevel
inverters. Dr.
Satish Kumar
Peddapelli is
Assistant
Professor at the
Osmania
University in
Hyderabad,
India. His areas
of interest are
Power

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Electronics,
Drives, Power
Converters,
Multi Level
Inverters and
Special
Machines.

This book
develops some
methods and
structures to
improve the
power inverters
for different

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applications in a single-phase or three-phase output in recent years. The reduction of the switching devices and multilevel inverters as changing structure for the power inverters and

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PDM and PWM methods as changing control methods for the power inverter are studied in this book.

Moreover, power inverters are developed to supply open-ended loads.

Furthermore, the basic and

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advanced aspects of the electric drives that are control based are taught for induction motor (IM) based on power inverters suitable for both undergraduate and postgraduate levels. The main objective of

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this book is to provide the necessary background to improve and implement the high-performance inverters. Once the material in this book has been mastered, the reader will be able to apply these

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improvements in
the power
inverters to his
or her problems
for high-
performance
power inverters.
A comprehensive
guide to
understanding AC
machines with
exhaustive
simulation
models to

Download File PDF Pulse Width Modulated Dc Dc Power Converters practice design and control

Nearly seventy percent of the electricity generated worldwide is used by electrical motors.

Worldwide, huge research efforts are being made to develop

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commercially
viable three-
and multi-phase
motor drive
systems that are
economically and
technically
feasible.

Focusing on the
most popular AC
machines used in
industry –
induction
machine and

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permanent magnet
synchronous
machine – this
book illustrates
advanced control
techniques and
topologies in
practice and
recently
deployed.
Examples are
drawn from
important
techniques

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including Vector
Control, Direct
Torque Control,
Nonlinear
Control,
Predictive
Control, multi-
phase drives and
multilevel
inverters. Key
features
include:
systematic
coverage of the

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advanced
concepts of AC
motor drives
with and without
output filter;
discussion on
the modelling,
analysis and
control of
three- and multi-
phase AC machine
drives,
including the
recently

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developed multi-
phase-phase
drive system and
double fed
induction
machine;
description of
model predictive
control applied
to power
converters and
AC drives,
illustrated
together with

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their simulation models; end-of-chapter questions, with answers and PowerPoint slides available on the companion website www.wiley.com/go/aburub_control This book integrates a diverse range of topics into

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one useful
volume,
including most
the latest
developments. It
provides an
effective
guideline for
students and
professionals on
many vital
electric drives
aspects. It is
an advanced

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textbook for
final year
undergraduate
and graduate
students, and
researchers in
power
electronics,
electric drives
and motor
control. It is
also a handy
tool for
specialists and

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practicing
engineers
wanting to
develop and
verify their own
algorithms and
techniques.

This book is the
result of the
extensive
experience the
authors gained
through their
year-long

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occupation at
the Faculty of
Electrical
Engineering at
the University
of Banja Luka.
Starting at the
fundamental
basics of
electrical
engineering, the
book guides the
reader into this
field and covers

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all the relevant types of converters and regulators.

Understanding is enhanced by the given examples, exercises and solutions. Thus this book can be used as a textbook for students, for self-study or as

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a reference book
for

professionals.

For courses in

Devices:

Conventional

Flow and

Devices:

Electron Flow,

in four-year

engineering

technology and

engineering

programs. This

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text presents comprehensive coverage of electronic devices, discrete and integrated, with real-world applications. This book describes the operation and analysis of soft-commutated

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isolated DC–DC converters used in the design of high efficiency and high power density equipment. It explains the basic principles behind first- and second-order circuits with power switches to enable

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readers to understand the importance of these converters in high efficiency and high power density power supply design for residential, commercial, industrial and medical use as well as in

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aerospace
equipment. With
each chapter
featuring a
different power
converter
topology, the
book covers the
most important
resonant
converters,
including series
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converters;

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resonant LLC
converters; soft
commutation
pulse width
modulation
converters; zero
voltage
switching; and
zero current
switching. Each
topic is
presented with
full analysis, a
showcase of the

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power stages of the converters, exercises and their solutions as well as simulation results, which mainly focus on the commutation analysis and output characteristic.

This book is a valuable source

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of information
for
professionals
working in power
electronics,
power conversion
and design of
high efficiency
and high power
density DC-DC
converters and
switch mode
power supplies.
The book also

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serves as a point of reference for engineers responsible for development projects and equipment in companies and research centers and a text for advanced students.

This is the

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final volume in
a four-volume
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studies AC/DC
conversion, the
second studies
AC/ AC
conversion, and
the third DC/DC
conversion. This

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final volume
deals with DC/AC
conversion, i.e.
with inverters.
At the output of
an inverter fed
by a DC voltage
supply, this
voltage is
alternatively
found with one
polarity and
then with the
other; in other

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words, an AC voltage made up of square pulses is obtained.

Filtering must be carried out if, as is normally the case, a virtually sinusoidal voltage is required: this problem of

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filtering underlies the entire study of inverters. In some applications, the load itself provides the filtering. In others, a filter is installed between the inverter and the load; however,

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as it will be shown in Chap. 2, in cases where the filtered voltage is at industrial network frequency and comprises only a single square-wave pulse per half-cycle, the filter becomes bulky and

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costly, and the results obtained are poor.

Filtering problems explain the considerable development of inverters during the last years:

- Firstly there is increasing use of pulse width modulation: each

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half-cycle is cut up into several pulses of suitable widths; this greatly simplifies filtering. The use of a chopping frequency which is much greater than the frequency of the

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fundamental components of the inverter output voltage and current has only been made possible by progress in the field of semiconductor devices.

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STEP WIDTH
MODULATED DC-TO-
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DC-AC Conversion

This book is

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devoted to
resonant energy
conversion in
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. It is a practical,
systematic guide
to the
analysisand
design of various
dc-dc resonant
inverters, high-fr
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today's high-
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energy
processors.
Designed
tofunction as
both a superior s

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Senior-to-graduate level textbook for electrical engineering courses and a valuable professional reference for practicing engineers, it provides students

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and engineers
with a solid
grasp of existing
high-frequency
technology, while
acquainting them
with a number of
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tools for
the analysis and
design of
resonant power

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circuits.

Resonant

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technology is

now a very hot

area and in the

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This book presents a series of new topologies and modulation schemes for soft-switching in isolated DC – DC converters.

Providing detailed analyses and design

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procedures for
converters used
in a broad range
of applications, it
offers a wealth
of engineering
insights for
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students in the
field of power
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well as

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founding
equations are
included. Based
on the author's
continued
research and in-
depth, handson
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PFC circuit

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operated in
voltage or
current mode All-
over power
phenomena in QR
or fixed-
frequency discon-
tinuous/continuo-
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converters Small-
signal model of a
QR flyback

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Power factor
correction

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address common
problems in state-

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electronics

technologies.

Author Stefanos
Manias supplies
a detailed
discussion of the
theory of power
electronics
circuits and
electronic power
conversion

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technology systems, with common problems and methods of analysis to critically evaluate results. These theories are reinforced by simulation examples using

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well-known and widely available software programs, including SPICE, PSIM, and MATLAB/SIMULINK. Manias expertly analyzes power electronic circuits with basic power

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semiconductor devices, as well as the new power electronic converters. He also clearly and comprehensively provides an analysis of modulation and output voltage, current control

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techniques,
passive and
active filtering,
and the
characteristics
and gating
circuits of
different power
semiconductor
switches, such
as BJT's, IGBT's,
MOSFET's,

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IGCTs, MCTs
and GTOs.

Includes step-by-
step analysis of
power electronic
systems

Reinforced by
simulation
examples using
SPICE, PSIM,
and MATLAB/SI
MULINK

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Provides 110
common
problems and
solutions in
power
electronics
technologies
This book
presents the
latest cutting-
edge technology
in high-power

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converters and
medium voltage
drives, and
provides a
complete
analysis of
various
converter
topologies,
modulation
techniques,
practical drive

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configurations,
and advanced
control schemes.
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250 illustrations,
the author
illustrates key
concepts with
simulations and
experiments.
Practical

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problems, along
with

accompanying
solutions, are
presented to
help you tackle
real-world
issues.

Power
consumption has
become a major
design

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consideration for
battery-
operated,
portable systems
as well as high-
performance,
desktop
systems. Strict
limitations on
power
dissipation must
be met by the

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designer while still meeting ever higher computational requirements. A comprehensive approach is thus required at all levels of system design, ranging from algorithms and architectures

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to the logic styles and the underlying technology. Potentially one of the most important techniques involves combining architecture optimization with

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voltage scaling,
allowing a trade-
off between
silicon area and
low-power
operation.

Architectural
optimization
enables supply
voltages of the
order of 1 V
using standard

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CMOS
technology.

Several
techniques can
also be used to
minimize the
switched
capacitance,
including
representation,
optimizing signal
correlations,

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minimizing
spurious
transitions,
optimizing
sequencing of
operations,
activity-driven
power down, etc.
The high-
efficiency of DC-
DC converter
circuitry

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required for
efficient, low-
voltage and low-
current level
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techniques to a
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reduction in
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consumption is
possible. The
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Professor Meindl
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switching

techniques that
can break the
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energy per
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Srivastava, of
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the application of

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aggressive shut-down techniques

to

microprocessor applications.

The key to perfecting your communication strategy Great communication skills can make all the difference

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in your personal
and professional
life, and expert
author Elizabeth
Kuhnke shares
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tips for
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communication in
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listening,
building rapport
with people,
verbal and non-
verbal
communication,
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technology, and
lots more,
Communication
Skills

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and family to
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Utilising a core
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Communication
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Soft
Commutation
Isolated DC-DC
Converters
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Components
Power Electronic
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High-Power
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Converters and
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Vlt Electronics;
Mixed-Mode
Systems; Low-
Noise and RF
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elecommunicatio
n
Intelligent Data

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*Soft-switching
PWM full-bridge
converters have
been widely
used in medium-
to-high power
dc-dc
conversions for
topological simpl
icity, easy*

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control and high efficiency. Early works on soft-switching PWM full-bridge converter by many researchers included various topologies and modulation strategies.

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However, these works were scattered, and the relationship among these topologies and modulation strategies had not been revealed. This book intends to describe

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*systematically
the soft-switching
techniques for
pulse-width
modulation
(PWM) full-
bridge converters,
including the
topologies,
control and
design, and it
reveals*

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the relationship among the various topologies and PWM strategies previously proposed by other researchers. The book not only presents theoretical

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*separate papers
and conference
records to attain
a working
knowledge of
the subject. **

*Brings together
the field's
diverse
approaches into
an integrated
and*

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*comprehensive
theory of PWM
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range of power
electronics
study resources,
this unique lab
manual helps
students to gain
a deep
understanding*

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*of the operation,
modeling,
analysis, design,
and
performance of
pulse-width
modulated
(PWM) DC-DC
power
converters.
Exercises focus
on three*

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signal modeling,
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and PWM DC-
DC converter
control
schemes; and*

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features:*

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complete
designs to give
students a quick
overview of the
converters, their
characteristics,
and
fundamental
analysis of*

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programming
tool (MATLAB,
Mathematica, or
Maple) and any
circuit
simulation tool
(PSpice,
LTSpice,
Synopsys*

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*SABER, PLECS,
etc.). Quick
design section
enables
students and
instructors to
verify their
design
methodology for
instant
simulations.
Presents lab*

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*exercises based
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advancements
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electronics,
including
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power
converters,
modeling,
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*voltage-mode
control
schemes, and
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semiconductor
devices.*

*Provides
comprehensive
appendices to
aid basic
understanding
of the*

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*fundamental
circuits,
programming
and simulation
tools. Contains a
quick
component
selection list of
power
MOSFETs and
diodes together
with their*

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*ratings,
important
specifications
and Spice
models.*

*DC/AC inversion
technology is of
vital importance
for industrial
applications,
including
electrical*

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*vehicles and
renewable
energy systems,
which require a
large number of
inverters. In
recent years,
inversion
technology has
developed
rapidly, with
new topologies*

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*improving the
power factor
and increasing
power
efficiency.
Proposing many
novel
approaches,
Advanced
DC/AC
Inverters:
Applications in*

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*Renewable
Energy
describes
advanced
DC/AC inverters
that can be used
for renewable
energy systems.
The book
introduces more
than 100
topologies of*

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*advanced
inverters
originally
developed by
the authors,
including more
than 50 new
circuits. It also
discusses
recently
published
cutting-edge*

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topologies.

*Novel PWM and
Multilevel*

*Inverters The
book first covers
traditional pulse
-width-
modulation
(PWM) inverters
before moving
on to new quasi-
impedance*

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*source inverters
and soft-
switching PWM
inverters. It
then examines
multilevel
DC/AC
inverters, which
have overcome
the drawbacks
of PWM
inverters and*

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*provide greater
scope for
industrial
applications.
The authors
propose four
novel multilevel
inverters:
laddered
multilevel
inverters, super-
lift modulated*

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inverters, switched-capacitor inverters, and switched-inductor inverters. With simple structures and fewer components, these inverters are well suited

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*for renewable
energy systems.*

*Get the Best
Switching
Angles for Any
Multilevel
Inverter A key
topic for
multilevel
inverters is the
need to manage
the switching*

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angles to obtain the lowest total harmonic distortion (THD). The authors outline four methods for finding the best switching angles and use simulation waveforms to

verify the design. The optimum switching angles for multilevel DC/AC inverters are also listed in tables for quick reference.

*Application
Examples of*

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*DC/AC Inverters
in Renewable
Energy Systems
Highlighting the
importance of
inverters in
improving
energy saving
and power-
supply quality,
the final chapter
of the book*

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*supplies design
examples for
applications in
wind turbine
and solar panel
energy systems.
Written by
pioneers in
advanced
conversion and
inversion
technology, this*

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*book guides
readers in
designing more
effective DC/AC
inverters for use
in renewable
energy systems.
This is the
definitive
reference for
anyone involved
in pulsewidth*

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*modulated DC-
to-DC power
conversion
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Conversion:
Circuits,
Dynamics, and
Control Designs
provides
engineers,*

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*researchers,
and students in
the power
electronics field
with
comprehensive
and complete
guidance to
understanding
pulsewidth
modulated
(PWM) DC-to-*

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*DC power
converters.*

*Presented in
three parts, the
book addresses
the circuitry and
operation of
PWM DC-to-DC
converters and
their dynamic
characteristics,
along with in-*

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*depth
discussions of
control design
of PWM DC-to-
DC converters.
Topics include:
Basics of DC-to-
DC power
conversion DC-
to-DC converter
circuits
Dynamic*

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*modeling Power
stage dynamics
Closed-loop
performance
Voltage mode
control and
feedback design
Current mode
control and
compensation
design Sampling
effects of*

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*current mode
control*

*Featuring fully
tested problems
and simulation
examples as
well as
downloadable
lecture slides
and ready-to-
run PSpice
programs,*

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*Pulsewidth
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to-DC Power
Conversion is an
ideal reference
book for
professional
engineers as
well as graduate
and
undergraduate
students.*

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A voltage converter changes the voltage of an electrical power source and is usually combined with other components to create a power supply. This title

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is devoted to the control of static converters, which deals with pulse-width modulation (PWM)

techniques, and also discusses methods for current control. Various

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application cases are treated. The book is ideal for professionals in power engineering, power electronics, and electric drives industries, as well as

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engineers,
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professors,
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fellows, and
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the
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*of AC motor
drive systems.*

*The book
includes new
material on
medium voltage
drives, covering
state-of-the-art
technologies
and challenges
in the industrial
drive system, as*

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*well as their
components,
and control,
current source
inverter-based
drives, PWM
techniques for
multilevel
inverters, and
low switching
frequency
modulation for*

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voltage source
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*inverters. This
book covers
three-phase and
multiphase
(more than
three-phase)
motor drives
including their
control and
practical
problems faced*

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*in the field (e.g.,
adding LC
filters in the
output of a
feeding
converter), are
considered. The
new edition
contains links to
Matlab®/Simuli
nk models and
PowerPoint*

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teaching and
understanding
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also benefit
from the
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for voltage
source and
current source
inverters
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harmonic*

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oriented control
of AC machines
Voltage source
and current
source inverter-
fed drives and
their control
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control of
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of High-
Frequency
Switched-Mode
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For the first time in power electronics, this comprehensive treatment of switch-mode DC/DC converter designs addresses many analytical closed form equations such as duty cycle prediction, output regulation, output

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ripple, control loop-gain, and steady state time-domain waveform. Each of these equations are given various topologists and configurations, including forward, flyback, and boost converters. Pulse Width Modulated DC/DC Converters

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begins with a detailed approach to the quiescent operating locus of a power plant under open-loop. The reader is then led through other supporting circuits once again in the quiescent condition. These exercises result in the close-

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loop formulations of the subject system, providing designers with the ability to study the sensitivities of a system against disturbances. With the quiescent conditions well established, the book then guides the reader further into

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the territories of system stability where small signal behaviors are explored. Finally, some important large signal time-domain studies cap the treatment. Some distinctive features of this book include:

- *detailed coverage of dynamic close-

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loop converter
simulations using
only personal
computer and
modern
mathematical
software *Steady-
state, time-domain
analysis based on
the concept of
continuity of states
Voltage-mode and
current-mode control

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techniques and their differences of merits
A detailed description on setting up different equations for DC/DC converters'simulation using only PC DC/DC conversion techniques have undergone rapid development in recent decades.

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With the pioneering work of authors Fang Lin Luo and Hong Ye, DC/DC converters have now been sorted into their six generations, and by a rough count, over 500 different topologies currently exist, with more being developed each year. Advanced

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DC/DC Converters offers a concise, practical presentation of DC/DC converters, summarizing the spectrum of conversion technologies and presenting many new ideas and more than 100 new topologies. The

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treatment begins with background material on DC/DC conversion and discussions on voltage lift and super-lift converters. It then proceeds through each generation, including the groundbreaking sixth generation--converters developed by the

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authors that can be cascaded for high voltage transfer gain. More than 320 figures, 60 tables, and 500 formulae allow you to more easily grasp the overall structure of advanced DC/DC converters, provide fast access to precise data, and

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help you quickly determine the values of your own circuit components.

Nowhere else in the literature are DC/DC converters so logically sorted and systematically introduced. Nowhere else can you find detailed information on prototype

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topologies that represent a major contribution to modern power engineering.

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modern industrial automation and high-efficiency energy systems. With contributions from an international group of noted experts, *Power Electronics in Renewable Energy Systems and Smart Grid: Technology and Applications* offers a

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comprehensive review of the technology and applications of power electronics in renewable energy systems and smart grids. The authors cover information on a variety of energy systems including wind, solar, ocean, and geothermal

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energy systems as well as fuel cell systems and bulk energy storage systems. They also examine smart grid elements, modeling, simulation, control, and AI applications. The book's twelve chapters offer an application-oriented and tutorial

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viewpoint and also contain technology status review. In addition, the book contains illustrative examples of applications and discussions of future perspectives. This important resource: Includes descriptions of power

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semiconductor devices, two level and multilevel converters, HVDC systems, FACTS, and more Offers discussions on various energy systems such as wind, solar, ocean, and geothermal energy systems, and also fuel cell systems

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and bulk energy
storage systems

Explores smart grid
elements, modeling,
simulation, control,
and AI applications
Contains state-of-the-
art technologies and
future perspectives
Provides the
expertise of
international
authorities in the

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field Written for graduate students, professors in power electronics, and industry engineers, *Power Electronics in Renewable Energy Systems and Smart Grid: Technology and Applications* offers an up-to-date guide to technology and applications of a

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wide-range of power electronics in energy systems and smart grids.

In many university curricula, the power electronics field has evolved beyond the status of comprising one or two special-topics courses. Often there are several courses

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dealing with the power electronics field, covering the topics of converters, motor drives, and power devices, with possibly additional advanced courses in these areas as well. There may also be more traditional power-area courses in energy

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conversion,
machines, and
power systems. In
the breadth vs. depth
tradeoff, it no longer
makes sense for one
textbook to attempt
to cover all of these
courses; indeed,
each course should
ideally employ a
dedicated textbook.
This text is intended

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for use in introductory power electronics courses on converters, taught at the senior or first-year graduate level. There is sufficient material for a one year course or, at a faster pace with some material omitted, for two quarters or one

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semester. The first class on converters has been called a way of enticing control and electronics students into the power area via the "back door". The power electronics field is quite broad, and includes fundamentals in the

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areas of • Converter
circuits and
electronics • Control
systems • Magnetics
• Power applications
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analysis This wide
variety of areas is
one of the things
which makes the
field so interesting
and appealing to
newcomers. This

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breadth also makes teaching the field a challenging undertaking, because one cannot assume that all students enrolled in the class have solid prerequisite knowledge in so many areas.

Unleash the power of the Raspberry Pi 3

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board to create interesting IoT projects Key Features Learn how to interface various sensors and actuators with the Raspberry Pi 3 and send this data to the cloud. Explore the possibilities offered by the IoT by using the Raspberry Pi to

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measurements to

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practical guide that

will help you create a

Raspberry Pi robot

using IoT modules.

Book Description

This book is

designed to

introduce you to IoT

and Raspberry Pi 3.

It will help you create

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interesting projects, such as setting up a weather station and measuring temperature and humidity using sensors; it will also show you how to send sensor data to cloud for visualization in real-time. Then we shift our focus to

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leveraging IoT for accomplishing complex tasks, such as facial recognition using the Raspberry Pi camera module, AWS Rekognition, and the AWS S3 service.

Furthermore, you will master security aspects by building a security surveillance

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system to protect your premises from intruders using Raspberry Pi, a camera, motion sensors, and AWS Cloud. We'll also create a real-world project by building a Wi-Fi – controlled robot car with Raspberry Pi using a motor driver circuit,

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DC motor, and a
web application.

This book is a must-have as it provides a practical overview of IoT's existing architectures, communication protocols, and security threats at the software and hardware levels—security

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being the most important aspect of IoT. What you will learn Understand the concept of IoT and get familiar with the features of Raspberry Pi Learn to integrate sensors and actuators with the Raspberry Pi Communicate with cloud and Raspberry

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using
communication
protocols such as
HTTP and MQTT
Build DIY projects
using Raspberry Pi,
JavaScript/node.js
and cloud (AWS)
Explore the best
practices to ensure
the security of your
connected devices
Who this book is for

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If you're a developer or electronics engineer and are curious about the Internet of Things, then this is the book for you. With only a rudimentary understanding of electronics, the Raspberry Pi, or similar credit-card sized computers,

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and some programming experience, you will be taught to develop state-of-the-art solutions for the Internet of Things in an instant.

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new chapter on
emerging
applications of
switching
converters, Power-
Switching
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Edition offers the
same trusted,
accessible, and
comprehensive
information as its
bestselling

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predecessors.

Similar to the two previous editions, this book can be used for an introductory as well as a more advanced course. Chapters begin with an introduction to switching converters and basic switching converter topologies.

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Entry level chapters continue with a discussion of resonant converters, isolated switching converters, and the control schemes of switching converters. Skipping to chapters 10 and 11, the subject matter involves an examination of

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interleaved converters and switched capacitor converters to round out and complete the overview of switching converter topologies. More detailed chapters include the continuous time-modeling and discrete-time

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modeling of
switching converters
as well as analog
control and digital
control. Advanced
material covers tools
for the simulation of
switching converters
(including both
PSpice and Matlab
simulations) and the
basic concepts
necessary to

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understand various actual and emerging applications for switching converters, such as power factor correction, LED drivers, low-noise converters, and switching converters topologies for solar and fuel cells. The final chapter

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contains several complete design examples, including experimental designs that may be used as technical references or for class laboratory projects.

Supplementary information is available at crcpress.com

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including slides,
PSpice examples
(designed to run on
the OrCAD 9.2
student version and
PSIM software) and
MATLAB scripts.
Continuing the
august tradition of its
predecessors,
Power-Switching
Converters, Third
Edition provides

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introductory and
advanced
information on all
aspects of power
switching converters
to give students the
solid foundation and
applicable
knowledge required
to advance in this
growing field.
PWM DC-DC power
converter technology

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underpins many energy conversion systems including renewable energy circuits, active power factor correctors, battery chargers, portable devices and LED drivers.

Following the success of Pulse-Width Modulated DC-DC Power

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Converters this second edition has been thoroughly revised and expanded to cover the latest challenges and advances in the field. Key features of 2nd edition: Four new chapters, detailing the latest advances in power conversion, focus

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on: small-signal
model and dynamic
characteristics of the
buck converter in
continuous
conduction mode;
voltage-mode control
of buck converter;
small-signal model
and characteristics
of the boost
converter in the
discontinuous

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conduction mode
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Designs

Control circuits are a key element in the operation and performance of power electronics converters.

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This book describes practical issues related to the design and implementation of these control circuits, and is divided into three parts - analogue control circuits, digital control circuits, and new trends in control circuits.

This book gathers papers presented at

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the ECC 2016, the
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November 7 to 9,
2016. The aim of the
ECC is to provide an
internationally
respected forum for

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scientific research in the broad areas of intelligent data analysis, computational intelligence, signal processing, and all associated applications of artificial intelligence (AI). The third installment of the ECC was jointly organized by Fujian

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Technology, China,
and VSB-Technical
University of Ostrava,
Czech Republic. The
conference was co-
sponsored by Taiwan
Association for Web
Intelligence
Consortium, and
Immersion Co., Ltd.
Presents the latest
developments in

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switchgear and
DC/DC converters
for DC grids, and
includes substantially
expanded material on
MMC HVDC This
newly updated edition
covers all HVDC
transmission
technologies including
Line Commutated
Converter (LCC)
HVDC; Voltage

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Source Converter
(VSC) HVDC, and
the latest VSC HVDC
based on Modular
Multilevel Converters
(MMC), as well as the
principles of building
DC transmission grids.
Featuring new
material throughout,
High Voltage Direct
Current Transmission:
Converters, Systems

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and DC Grids, 2nd Edition offers several new chapters/sections including one on the newest MMC converters. It also provides extended coverage of switchgear, DC grid protection and DC/DC converters following the latest developments on the

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market and in research projects. All three HVDC technologies are studied in a wide range of topics, including: the basic converter operating principles; calculation of losses; system modelling, including dynamic modelling; system control;

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HVDC protection, including AC and DC fault studies; and integration with AC systems and fundamental frequency analysis.

The text includes: A chapter dedicated to hybrid and mechanical DC circuit breakers Half bridge and full bridge MMC:

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modelling, control,
start-up and fault
management A
chapter dedicated to
unbalanced operation
and control of MMC
HVDC The
advancement of
protection methods
for DC grids
Wideband and high-
order modeling of DC
cables Novel

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treatment of topics not found in similar books, including SimPowerSystems models and examples for all HVDC topologies hosted by the 1st edition companion site. High Voltage Direct Current Transmission: Converters, Systems and DC Grids, 2nd

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Edition serves as an ideal textbook for a graduate-level course or a professional development course. This text reveals all key components of rectification, inversion, cycloconversion, and conversion circuits. It authoritatively describes switching,

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voltage and current relationships, and converter properties, operation, control, and performance as utilized in most practical applications. Authored jointly by a veteran scholar and an accomplished res

A DC/DC converter was designed for use on a solar-cell, battery-

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powered satellite. The design uses step-width modulation rather than the more common pulse-width modulation for regulation. This report contains a description of the various forms of conversion and regulation which are currently in use and show why, for this

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application, step width modulation is best.

The report also contains a complete description of the design of a particular converter included as a design example.
(Author).

This volume of
Analog Circuit Design
concentrates on three
topics: Volt

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Electronics; Design
and Implementation
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Systems; Low-Noise
and RF Power
Amplifiers for
Telecommunication.
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six papers on each
topic written by
internationally
recognised experts.
These papers are

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tutorial in nature and together make a substantial contribution to improving the design of analog circuits. The book is divided into three parts: Part I, Volt Electronics, presents some of the circuit design challenges which are having to be met as

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the need for more electronics on a chip forces smaller transistor dimensions, and thus lower breakdown voltages. The papers cover techniques for 1-Volt electronics. Part II, Design and Implementation of Mixed-Mode Systems, deals with the various

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problems that are encountered in mixed analog-digital design. In the future, all integrated circuits are bound to contain both digital and analog sub-blocks. Problems such as substrate bounce and other substrate coupling effects cause deterioration in signal integrity. Both aspects

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of mixed-signal design have been addressed in this section and it illustrates that careful layout techniques embedded in a hierarchical design methodology can allow us to cope with most of the challenges presented by mixed analog-digital design.

Part III, Low-noise

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and RF Power
Amplifiers for

Telecommunication,
focuses on

telecommunications
systems. In these

systems low-noise

amplifiers are front-

ends of receiver

designs. At the

transmitter part a high-

performance, high-

efficiency power

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amplifier is a critical design. Examples of both system parts are described in this section. Analog Circuit Design is an essential reference source for analog design engineers and researchers wishing to keep abreast with the latest developments in the field. The tutorial

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nature of the contributions also makes it suitable for use in an advanced course.

[Leverage the power of Raspberry Pi 3 and JavaScript to build exciting IoT projects](#)
[Pulsewidth Modulated DC-to-DC Power Conversion](#)
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