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conversion

techniques have
undergone rapid

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development in
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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,

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over 800 different
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with more being
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summarizes the
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technologies, and
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background

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material on
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conversion, the
book later
discusses both
voltage lift and
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then proceeds
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including the

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groundbreaking
sixth generation—
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developed by the
authors that can
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high voltage
transfer gain.

This new edition
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chapters. The introduction of the super-lift technique is an outstanding achievement in DC/DC conversion technology, and the ultra-lift technique and hybrid split-capacitor

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applied in Super-
Lift Luo-

Converters are
introduced in
Chapters 7 and 8.
In Chapter 9, the
authors have
theoretically
defined a new
concept, Energy
Factor (EF),

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researched the
relations between
EF and the

mathematical
modelling for
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converters, and
demonstrated the
modeling method
for two

converters. More
than 320 figures,

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60 tables, and
500 formulae
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to more easily
grasp the overall
structure of
advanced DC/DC
converters,
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In a world where computer science is now an essential element in all of our lives, a new opportunity to disseminate the latest research and trends is always welcome. This book presents the proceedings of the first International Conference on Recent

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Trends in Computing
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(ICRTC 2021), which
was held as a virtual

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Kopargaon, India due

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exchange among
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research in the field
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This book gathers
outstanding papers
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Annual Conference of
China Electrotechnical
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China Electrotechnical
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Beijing, China, from
September 24 to 26,
2021. It covers topics

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such as electrical
technology, power
systems,

electromagnetic
emission technology,
and electrical
equipment. It
introduces the
innovative solutions
that combine ideas
from multiple
disciplines. The book
is very much helpful

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and useful for the researchers, engineers, practitioners, research students, and interested readers.

In this book, nine papers focusing on different fields of power electronics are gathered, all of which are in line with the present trends in research and industry.

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Given the generality
of the Special Issue,
the covered topics

range from
electrothermal models
and losses models in
semiconductors and
magnetics to
converters used in
high-power
applications. In this
last case, the papers
address specific

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problems such as the distortion due to zero-current detection or fault investigation using the fast Fourier transform, all being focused on analyzing the topologies of high-power high-density applications, such as the dual active bridge or the H-bridge multilevel inverter.

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All the papers provide enough insight in the analyzed issues to be used as the starting point of any research. Experimental or simulation results are presented to validate and help with the understanding of the proposed ideas. To summarize, this book will help the reader to

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solve specific
problems in industrial
equipment or to
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fields.

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Systems (ICPERES

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Rajalakshmi

Engineering College,

Chennai, India. These

research papers

provide the latest

developments in the

broad area of Power

Electronics and

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Renewable Energy.

The book discusses
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Advanced DC/DC
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Unmanned aerial vehicles (UAVs) are being increasingly used in different applications in both military and civilian domains. These applications include surveillance, reconnaissance,

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***remote sensing,
target acquisition,
border patrol,
infrastructure
monitoring, aerial
imaging, industrial
inspection, and
emergency medical
aid. Vehicles that
can be considered
autonomous must
be able to make
decisions and react
to events without***

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*direct intervention
by humans.*

*Although some
UAVs are able to
perform increasingly
complex
autonomous
manoeuvres, most
UAVs are not fully
autonomous;
instead, they are
mostly operated
remotely by
humans. To make*

UAVs fully autonomous, many technological and algorithmic developments are still required. For instance, UAVs will need to improve their sensing of obstacles and subsequent avoidance. This becomes particularly

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***important as
autonomous UAVs
start to operate in
civilian airspaces
that are occupied by
other aircraft. The
aim of this volume is
to bring together the
work of leading
researchers and
practitioners in the
field of unmanned
aerial vehicles with
a common interest***

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in their autonomy.

*The contributions
that are part of this
volume present key
challenges
associated with the
autonomous control
of unmanned aerial
vehicles, and
propose solution
methodologies to
address such
challenges, analyse
the proposed*

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***methodologies, and
evaluate their
performance.***

***The IEEE Power
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Control and
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**researchers,
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***LNAI 8102 and LNAI
8103 constitutes the
refereed***

***proceedings of the
6th International
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ICIRA 2013, held in
Busan, South Korea,
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The 147 revised full
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***reviewed and
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on technical
challenges
associated with
varied applications
such as biomedical***

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covers not only

conventional SIMO DC-

DC converters but also

the new generations of

SIMO such as SIMO

AC-DC converters,

SIMO DC-AC

converters (or SIMO

inverters), and the

latest SIMO hybrid

converters. This book

offers a holistic and

systematic presentation

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*of all types of SIMO
converters,
encompassing the
derivation of the circuit
topologies, the
definition of key
concepts, detailed
discussion of
theoretical
underpinnings, design
methodology and
control schemes, as
well as design*

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*considerations and
techniques that enable
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implementation.

*Specific examples of
real-world applications
of SIMO converters are
also provided. The
volume offers a
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overview and
systematic
classification of the*

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*traditional and modern
topologies of SIMO*

converters in terms of

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implementation.

Specifically, the book

presents the

mathematical models

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*and design principles
necessary for
analyzing the behavior
of each kind of SIMO
converter, and building
upon that, introduces
and imparts new
approaches and
techniques when
designing such
converters, guiding
engineering students
and power engineers*

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towards achieving low-cost, compact and energy efficient SIMO converters. offers the design considerations and optimization as well as describing the key applications of SIMO converters. The book fills a significant niche in the power electronics literature and provides a

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*complete perspective on
SIMO converters that
hopefully can inspire
appreciation and better
understanding of the
subject matter. It can
be directly adopted in
undergraduate or
graduate coursework
as well as postgraduate
research programs.*

*This book constitutes
the refereed*

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energy smart grid,
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electronics,
optimization in
electronics,
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*and electronics, and
Software Design
electronic materials.*

*The book also includes
papers from the
Workshop on Data
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Disease.*

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collection of research
papers presented, at the
9th International
Conference on*

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uses sensing
devices,
information, and
communication
technology
connected to the
internet of things
(IoT) for the
optimum and
efficient utilization
of infrastructures

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and services with the goal of improving the living conditions of citizens. Increasing populations, lower budgets, limited resources, and compatibility of the upgraded technologies are some of the few

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problems affecting
the implementation
of smart cities.

Hence, there is
continuous
advancement
regarding
technologies for
the implementation
of smart cities. The
aim of this Special
Issue is to report

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on the design and
development of
integrated/smart

sensors, a

universal

interfacing

platform, along

with the IoT

framework,

extending it to next-

generation

communication

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networks for
monitoring
parameters of
interest with the
goal of achieving
smart cities. The
proposed universal
interfacing platform
with the IoT
framework will
solve many
challenging issues

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and significantly
boost the growth
of IoT-related
applications, not
just in the
environmental
monitoring domain
but in the other
key areas, such as
smart home,
assistive
technology for the

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elderly care, smart
city with smart
waste

management,
smart E-metering,
smart water
supply, intelligent
traffic control,
smart grid, remote
healthcare
applications, etc.,
signifying benefits

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for all countries.

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understanding
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systems ranging

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introductory
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chapters describe
the common
knowledge and
background
required to
understand the
preceding
chapters. After
that, each
application-specific
chapter: highlights

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the significant
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manufacturers
involved; provides
a historical
account of the
technological
evolution
experienced;
distinguishes the
physics and
mechanics; and
where possible,

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analyses a real life
example and
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and simulation

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diagrams and

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electronics and
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examples.

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concentrates on
intelligent
technologies as it
relates to

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engineering
systems. The book
covers the

following topics:

networking, signal
processing,

artificial

intelligence,

control and

software

engineering,

intelligent

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electronic circuits
and systems,
communications,
and materials and
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engineering. The
book is a collection
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that have been
reviewed by
technical editors.
These papers

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were presented at
the International
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Dec. 13-15, 2012.
Proceedings of the
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(ICAIECES -2015)
held at Velammal
Engineering
College (VEC),
Chennai, India
during 22 – 23
April 2015. The
book discusses
wide variety of
industrial,
engineering and
scientific

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applications of the
emerging
techniques.

Researchers from
academic and
industry present
their original work
and exchange
ideas, information,
techniques and
applications in the
field of

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Communication,
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Technologies.

Power electronics
technology is still
an emerging
technology, and it
has found its way
into many
applications, from
renewable energy

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generation (i.e., wind power and solar power) to electrical vehicles (EVs), biomedical devices, and small appliances, such as laptop chargers. In the near future, electrical energy will be provided

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and handled by power electronics and consumed through power electronics; this not only will intensify the role of power electronics technology in power conversion processes, but also implies that

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power systems are undergoing a paradigm shift, from centralized distribution to distributed generation. Today, more than 1000 GW of renewable energy generation sources (photovoltaic (PV)

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and wind) have been installed, all of which are handled by power electronics technology. The main aim of this book is to highlight and address recent breakthroughs in the range of

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emerging
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applications in
power electronics
and in harmonic
and
electromagnetic
interference (EMI)
issues at device
and system levels
as discussed in
?robust and
reliable power

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electronics
technologies,
including fault
prognosis and
diagnosis
technique stability
of grid-connected
converters and
?smart control of
power electronics
in devices,
microgrids, and at

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system levels.

This book reflects
the latest research
trends, methods,
and experimental
results in the field
of electrical and
information
technologies for
rail transportation,
which covers
abundant state-of-

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the-art research theories and ideas. As a vital field of research that is highly relevant to current developments in a number of technological domains, the subjects it covered include intelligent

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computing,
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information
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processing,
communication
technology,
automatic control,
etc. The objective
of the proceedings
is to provide a
major
interdisciplinary
forum for

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researchers,
engineers,
academicians, and
industrial

professionals to
present the most
innovative
research and
development in the
field of rail
transportation
electrical and

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information
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technologies.
Guide

Engineers and
researchers in
academia,
industry, and
government will
also explore an
insightful view of
the solutions that
combine ideas
from multiple

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disciplines in this field. The volumes serve as an excellent reference work for researchers and graduate students working on rail transportation and electrical and information technologies.

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This book is devoted to resonant energy conversion in power electronics. It is a practical, systematic guide to the analysis and design of various dc-dc resonant inverters, high-frequency rectifiers,

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and dc-dc
Software Design
resonant
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converters that are
building blocks of
many of today's
high-frequency
energy processors.
Designed
to function as both
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courses and a
valuable professio
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practicing
engineers, it
provides students
andengineers with
a solid grasp of
existing high-
frequency

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technology, while acquainting them with a number of easy-to-use tools for the analysis and design of resonant power circuits.

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harvesting
technologies.

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Proceedings of
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China, in August

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drives, new

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equipment,

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and its

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and insulation

and discharge
computation for
power equipment.
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engineers, and
graduate
students who
want to learn
about cutting-

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edge advances in
Electrical
Engineering.

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

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analyses and
design

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

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well as
stimulating new
ideas for future
research.

Today, there is
a great deal of
attention
focused on
sustainable
growth
worldwide. The
increase in
efficiency in
the use of

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energy may even,
in this

historical

moment, bring
greater benefit
than the use of
renewable
energies.

Electricity
appears to be
the most
sustainable of
energies and the
most promising

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hope for a
planet capable
of growing
without
compromising its
own health and
that of its
inhabitants.

Power
electronics and
electrical
drives are the
key technologies
that will allow

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energy savings
through the
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reduction of
energy losses in
many
applications.

This Special
Issue has
collected
several
scientific
contributions
related to
energy

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efficiency in
electrical
equipment. Some
articles are
dedicated to the
use and
optimization of
permanent magnet
motors, which
allow obtaining
the highest
level of
efficiency. Most
of the

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contributions
describe the
energy

improvements
that can be
achieved with
power
electronics and
the use of
suitable control
techniques. Last
but not least,
some articles
describe

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interesting
Software Design
@ide
solutions for
hybrid vehicles,
which were
created mainly
to save energy
in the smartest
way possible.

This book
provides a
detailed
overview of the
most recent
advances in the

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fascinating
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world of light-
emitting diodes
(LEDs), organic
light-emitting
diodes (OLEDs),
and
photodetectors
(PDs). Chapters
in Section 1
discuss the
different types
and designs of
LEDs/OLEDs and

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their use in
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light output,
Guide rendering,
and more.

Chapters in
Section 2
examine
innovative
structures,
emerging
materials, and
physical effects
of PDs. This
book is a useful

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working in the
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technology. The
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section begins
with

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conventional
two-level
inverter

topologies to
provide a
background on
the DC-AC power
conversion
process and
required
circuit
configurations.

Thereafter,

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multilevel
topologies
originating
from neutral
point clamped
topologies are
presented in
detail. The
improved and
inherited
regular
multilevel
topologies such

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as flying
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capacitor and
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conventional H-
bridge topology
are presented
to illustrate
the multilevel
concept.

Emerging
topologies are
introduced
regarding
application

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areas such as
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energy sources,
electric
vehicles, and
power systems.
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on to discuss
fundamental
operational
principles of
inverters using
the

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conventional
pulse width
modulated
control method.
Current and
voltage based
closed loop
control methods
such as
repetitive
control, space
vector
modulation,

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proportional
resonant
control and
other recent
methods are
developed. Core
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applications
including wind
energy,
photovoltaics,
microgrids,
hybrid

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vehicles,
active filters,
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are
investigated in
depth.

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technological
trends and
advances in ele
ctromechanical
coupling and

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and automation,
micro-
mechatronics,
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applications,
measurements,
and testing.

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applications
and solutions
discussed here
provide
excellent
reference
material for
future product

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developments.
The electric
vehicle market
has been
gradually
gaining
prominence in
the world due
to the rise in
pollution
levels caused
by traditional
IC engine-based

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vehicles. The
advantages of
electric

vehicles are
multi-pronged
in terms of
cost, energy
efficiency, and
environmental
impact. The
running and
maintenance
cost are

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considerably
less than
traditional
models. The
harmful exhaust
emissions are
reduced,
besides the
greenhouse gas
emissions, when
the electric
vehicle is
supplied from a

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renewable
energy source.
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However, apart
from some
Western
nations, many
developing and
underdeveloped
countries have
yet to take up
this
initiative.

This lack of

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enthusiasm has
been primarily
attributed to

the capital
investment
required for
charging
infrastructure
and the slow
transition of
energy
generation from
the fossil fuel

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to the
renewable
energy format.

Currently,
there are very
few charging
stations, and
the
construction of
the same needs
to be ramped up
to supplement
the growth of

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issues also
crop up when
the electric
vehicle is used
to either do
supply addition
to or draw
power from the
grid. These
problems need

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to be fixed at
all the levels
to enhance the
future of
energy
efficient
transportation.
Electric
Vehicles and
the Future of
Energy
Efficient
Transportation

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explores the growth and adoption of electric vehicles for the purpose of sustainable transportation and presents a critical analysis in terms of the economics,

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technology, and environmental perspectives of electric vehicles. The chapters cover the benefits and limitations of electric vehicles, techno-economic feasibility of the

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technologies
being
developed, and
the impact this
has on society.
Specific points
of discussion
include
electric
vehicle
architecture,
wireless power
transfer,

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battery
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management, and
renewable

resources. This
book is of
interest for
individuals in
the automotive
sector and
allied
industries,
policymakers,
practitioners,

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academicians,
and students
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updated
information on
the technology,
economics,
policy, and
environmental
aspects of

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evaluation of
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design methods
with real world
applications •
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leading author
renowned in his
field • Focuses
on switching

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design,
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debugging •

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supplies have
relevance for
contemporary
applications
including
mobile phone
chargers,
laptops and PCs

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authors'
successful

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illustrated

with design

examples of

real world

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of Switching
Power Supply
LLC Resonant
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6th**

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ICIRA 2013,

Busan, South
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September
25-28, 2013,
Proceedings,
Part II

Technological
Innovation for
Value Creation
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**the 2nd
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Computers
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Dubrovnik,
Croatia**

These proceedings

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address a broad range
of topic areas,
including

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power systems, digital
signal processing,
robotics, control
systems, renewable
energy, power
electronics, soft
computing and more.

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on vitally important
technologies that

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combine e.g.
electronics, cybernetics,
computer science,
telecommunication,
and physics. However,
since the advent of
these technologies, we
have been confronted
with numerous
technological
challenges such as
finding optimal
solutions to various
problems regarding

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real-life problems in
their own work.

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applications in the
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research: applied
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physics, system science
Guide
and computers. It is

organized in three
parts, the first of which
covers applied physics
topics, including lasers
and accelerators;
condensed matter, soft
matter and materials
science; nanoscience
and quantum
engineering; atomic,
molecular, optical and

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plasma physics; as well
as nuclear and high-
energy particle physics.

It also addresses
astrophysics,
gravitation, earth and
environmental science,
as well as medical and
biological physics. The
second and third parts
focus on advances in
computers and system
science, respectively,
and report on

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automatic circuit
control, power systems,
computer

communication, fluid
mechanics, simulation
and modeling, software
engineering, data
structures and
applications of artificial
intelligence among
other areas. Offering a
collection of
contributions presented
at the 2nd International

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Conference on Applied
Software Design
Physics, System Science
and Computers

(APSAC), held in

Dubrovnik, Croatia on

September 27-29, 2017,

the book bridges the

gap between applied

physics and electrical

engineering. It not only

to presents new

methods, but also

promotes collaborations

between different

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communities working on related topics at the interface between physics and engineering, with a special focus on communication, data modeling and visualization, quantum information, applied mechanics as well as bio and geophysics. The book presents new approaches and

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methods for solving
real-world problems. It
highlights, in
particular, innovative
research in the fields of
Cognitive Informatics,
Cognitive Computing,
Computational
Intelligence, Advanced
Computing, and Hybrid
Intelligent Models and
Applications. New
algorithms and
methods in a variety of

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fields are presented, together with solution-based approaches. The topics addressed include various theoretical aspects and applications of Computer Science, Artificial Intelligence, Cybernetics, Automation Control Theory, and Software Engineering.

This book describes the

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operation and analysis
of soft-commutated
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 readers to
understand the

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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 aerospace equipment. With each chapter featuring a different power converter topology, the book covers the most

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important resonant converters, including series resonant converters; 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 power stages of the converters,

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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 of information for professionals working in power electronics, power conversion and design of high efficiency and

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high power density
DC-DC converters and
switch mode power
supplies. The book also
serves as a point of
reference for engineers
responsible for
development projects
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companies and
research centers and a
text for advanced
students.

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Power Converters and
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International Institute of
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April 2021. The book
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leading academic
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and research scholars to
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