

Read Online An
Isolated Gate
Drive For Power
Mofsets And Igbts
An Isolated
Gate Drive
For Power
Mosfets And
Igbts

*Electrification is an
evolving paradigm
shift in the
transportation
industry toward more*

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efficient, higher performance, safer, smarter, and more reliable vehicles.

There is in fact a clear trend to move from internal combustion engines (ICEs) to more integrated electrified powertrains.

Providing a detailed

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overview of this
MOSFETs And IGBTs
growing area,

*Advanced Electric
Drive Vehicles begins
with an introduction
to the automotive
industry, an
explanation of the
need for
electrification, and a
presentation of the
fundamentals of*

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*conventional vehicles
and ICEs. It then*

*proceeds to address
the major*

*components of
electrified*

*vehicles—i.e., power
electronic converters,
electric machines,*

*electric motor
controllers, and*

energy storage

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systems. This
MOSFETs And IGBTs
comprehensive work:

*Covers more electric
vehicles (MEVs),
hybrid electric
vehicles (HEVs), plug-
in hybrid electric
vehicles (PHEVs),
range-extended
electric vehicles
(REEVs), and all-
electric vehicles (EVs)*

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including battery
MOSFETs And IGBTs
electric vehicles

*(BEVs) and fuel cell
vehicles (FCVs)*

*Describes the
electrification
technologies applied
to nonpropulsion
loads, such as power
steering and air-
conditioning systems*

Discusses hybrid batt

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ery/ultra-capacitor
MOSFETs And IGBTs
energy storage

*systems, as well as
48-V electrification
and belt-driven
starter generator
systems Considers
vehicle-to-grid (V2G)
interface and
electrical
infrastructure issues,
energy management,*

Read Online An
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and optimization in
MOSFETs And IGBTs
advanced electric

drive vehicles

*Contains numerous
illustrations, practical
examples, case
studies, and
challenging questions
and problems
throughout to ensure
a solid understanding
of key concepts and*

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MOSFETs And IGBTs
applications
Advanced Electric

*Drive Vehicles makes
an ideal textbook for
senior-level
undergraduate or
graduate engineering
courses and a user-
friendly reference
for researchers,
engineers, managers,
and other*

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professionals
MOSFETs And IGBTs
interested in

*transportation
electrification.*

*Design, Control and
Application of
Modular Multilevel
Converters for
HVDC Transmission
Systems is a
comprehensive guide
to semiconductor*

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*technologies
applicable for MMC
design, component
sizing control,
modulation, and
application of the
MMC technology for
HVDC transmission.
Separated into three
distinct parts, the first
offers an overview
of MMC technology,*

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including information
MOSFETs And IGBTs
on converter

*component sizing,
Control and
Communication,
Protection and Fault
Management, and
Generic Modelling
and Simulation. The
second covers the
applications of MMC
in offshore WPP,*

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*including planning,
technical and
economic
requirements and
optimization options,
fault management,
dynamic and
transient stability.*

*Finally, the third
chapter explores the
applications of MMC
in HVDC*

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*transmission and
Multi Terminal
configurations,
including Supergrids.
Key features: Unique
coverage of the
offshore application
and optimization of
MMC-HVDC
schemes for the
export of offshore
wind energy to the*

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mainland.

Comprehensive

*explanation of MMC
application in HVDC
and MTDC*

transmission

*technology. Detailed
description of MMC
components, control
and modulation,
different modeling
approaches,*

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converter dynamics
MOSFETs And IGBTs
under steady-state
and fault
contingencies
including application
and housing of MMC
in HVDC schemes
for onshore and
offshore. Analysis of
DC fault detection
and protection
technologies, system

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*studies required for
the integration of
HVDC terminals to
offshore wind power
plants, and
commissioning
procedures for
onshore and offshore
HVDC terminals. A
set of self-
explanatory
simulation models for*

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*HVDC test cases is
available to*

*download from the
companion website.
This book provides
essential reading for
graduate students and
researchers, as well
as field engineers
and professionals
who require an in-
depth understanding*

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of MMC technology. Initially, the only electric loads encountered in an automobile were for lighting and the starter motor. Today, demands on performance, safety, emissions, comfort, convenience, entertainment, and

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communications have
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seen the working-in
of seemingly
innumerable
advanced electronic
devices.

Consequently, vehicle
electric systems
require larger
capacities and more
complex
configurations to deal

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with these demands.
Mofets And Igbts
Covering applications
*in conventional,
hybrid-electric, and
electric vehicles, the
Handbook of
Automotive Power
Electronics and
Motor Drives
provides a
comprehensive
reference for*

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automotive electrical systems. This authoritative handbook features contributions from an outstanding international panel of experts from industry and academia, highlighting existing and emerging technologies. Divided

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*into five parts, the
Handbook of
Automotive Power
Electronics and
Motor Drives offers
an overview of
automotive power
systems, discusses
semiconductor
devices, sensors, and
other components,
explains different*

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power electronic
MOSFETs And IGBTs
converters, examines
electric machines and
associated drives,
and details various
advanced electrical
loads as well as
battery technology
for automobile
applications. As we
seek to answer the
call for safer, more

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efficient, and lower-
MOSFETs And IGBTs
emission vehicles

*from regulators and
consumer insistence
on better
performance,
comfort, and
entertainment, the
technologies outlined
in this book are vital
for engineering
advanced vehicles*

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*that will satisfy these
criteria.*

*This is the clear guide
for non-specialists to
electromagnetic
compatibility (EMC),
the effects of
electromagnetic
radiation and the
European EMC
Directive which is
now in force. This*

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book helps by explaining the basic principles of EMC, how it may be controlled in practice through filtering, shielding, appropriate printed circuit board design, and other means. Electrostatic discharge (ESD) and surge protection are

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discussed. The growing concern about the effects of electromagnetic waves and fields on health are examined in detail. This introduction provides beginners, technical and non-technical alike with a basic guide to the principles

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*of EMC. This will
prove essential
reading for the
thousands of people
close to despair,
giving them the
underlying insight, in
clear words, that is
needed to comply
with the EMC
Directive, and
therefore opens the*

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*door to continued
trading in Europe
and the World.*

*Beginner's guide to
EMC ideal for non-
technical staff Vital
for all businesses
who export to either
Europe or the rest of
the world*

*A Protected
Galvanically Isolated*

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*Gate Driver for High-
power Insulated Gate
Bipolar Transistors
Electric and Hybrid
Vehicles
Gallium Nitride and
Silicon Carbide
Power Technologies
4
Single-Inductor
Multiple-Output
Converters*

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*2019 IEEE Applied
Power Electronics
Conference and
Exposition (APEC)
AC Power
Conditioners*

In a New Mexico blizzard, four men cross a barbed-wire fence at Stallion Gate to select a test site for the first atomic

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weapon. They are
Oppenheimer the
physicist, Groves the
general, Fuchs the
spy. The fourth man is
Sergeant Joe Pena, a
hero, informer, fighter
and musician. These
four men - and a cast
of soldiers,
roughnecks and
scientists - will change
history forever.

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This is the first comprehensive book which discusses numerous AI applications to electrical machines and drives. It presents a detailed and unified mathematical and physical treatment, and contains many worked examples, presents numerous

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simulation results and shows a large number of experimental results obtained on different DSP systems. It is essential reading for anyone interested in acquiring a solid background in AI-based electrical machines and drives, including students, teachers and other

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academics, and an
industrial readership.

Wide Bandgap
Semiconductor Power
Devices: Materials,
Physics, Design and
Applications provides
readers with a single
resource on why these
devices are superior to
existing silicon
devices. The book
lays the groundwork

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for an understanding
of an array of
applications and
anticipated benefits in
energy savings.

Authored by the
Founder of the Power
Semiconductor
Research Center at
North Carolina State
University (and
creator of the IGBT
device), Dr. B. Jayant

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Baliga is one of the highest regarded experts in the field. He thus leads this team who comprehensively review the materials, device physics, design considerations and relevant applications discussed.

Comprehensively covers power electronic devices,

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including materials (both gallium nitride and silicon carbide), physics, design considerations, and the most promising applications

Addresses the key challenges towards the realization of wide bandgap power electronic devices, including materials

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defects, performance
and reliability

Provides the benefits
of wide bandgap
semiconductors,
including
opportunities for cost
reduction and social
impact

This textbook,
designed for
undergraduate
students of electrical

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engineering, offers a comprehensive and accessible

introduction to state-of-the-art power semiconductor devices and power electronic converters with an emphasis on design, analysis and realization of numerous types of systems. Each topic is

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discussed in sufficient depth to expose the fundamental principles, concepts, techniques, methods and circuits, necessary to thoroughly understand power electronic systems.

Beyond the Garden Gate
Intelligent Techniques
and Applications in

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Drive For Power
Science and
Technology

Power Supply

Cookbook

Modern Maximum

Power Point Tracking

Techniques for

Photovoltaic Energy

Systems

The Life of Celia

Laighton Thaxter

Design, Control, and

Application of

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Modular Multilevel
MOSFETs And IGBTs
Converters for HVDC
Transmission Systems

*This book
addresses topics
specific to the
application of
power electronics
to telecom
systems. It follows
the power flow
from national grid*

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*down to the last
low-voltage high
current
requirement of a
processor.*

*Auxiliary
equipment
requirements,
such as
uninterruptible
power supplies,
storage energy*

Read Online An Isolated Gate Drive For Power Mosfets And Igbts systems, or charging systems, are explained, along with peculiar classification or suggestions for usage. The presentation of each telecom power system is completed with a

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*large number of
practical*

*examples to
reinforce new
material.*

*Power Electronics
and Motor Drives:
Advances and
Trends, Second
Edition is the
perfect resource
to keep the*

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electrical engineer
up-to-speed on
the latest
advancements in
technologies,
equipment and
applications.
Carefully
structured to
include both
traditional topics
for entry-level and

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more advanced applications for the experienced engineer, this reference sheds light on the rapidly growing field of power electronic operations. New content covers converters,

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*machine models
and new control
methods such as
fuzzy logic and
neural network
control. This
reference will help
engineers further
understand recent
technologies and
gain practical
understanding*

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*with its inclusion
of many industrial
applications.*

*Further supported
by a glossary per
chapter, this book
gives engineers
and researchers a
critical reference
to learn from real-
world examples
and make future*

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*decisions on
power electronic
technology and
applications.
Provides many
practical
examples of
industrial
applications
Updates on the
newest electronic
topics with*

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*content added on
fuzzy logic and*

neural networks

Presents

information from

an expert with

decades of

research and

industrial

experience

I May observed

that recent

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*developments in
power electronics
have proceeded in
two different direc
tions, namely, low
power range
power supplies
using high
frequency PWM
technique and
medium to high
power range*

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energy control systems to serve specific Purpose. Power electronics, which is a rapidly growing area in terms of research and applications, uses modern electronics technology to convert electric

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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*

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*topologies, control
techniques,
analytical
methods and
some examples of
their applications.*

** 25% new
content **

*Reorganized and
revised into 8
sections
comprising 43*

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*chapters **

*Coverage of
numerous
applications,
including
uninterruptable
power supplies
and automotive
electrical systems*

** New content in
power generation
and distribution,*

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*including solar
power, fuel cells,
wind turbines, and
flexible
transmission
Patents
Magnetic Bearings
and Bearingless
Drives
Advances and
Trends
Power Supplies for*

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*LED Driving
Isolated Gate
Driver Power
Supply for Medium
Voltage
Applications
Physics, Design
and Applications
of the Insulated
Gate Bipolar
Transistor
Power Supply*

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Cookbook, Second Edition provides an easy-to-follow, step-by-step design framework for a wide variety of power supplies. With this book, anyone with a basic knowledge of electronics can create a very complicated power supply design in

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**less than one day.
With the common
industry design
approaches
presented in each
section, this unique
book allows the
reader to design
linear, switching,
and quasi-resonant
switching power
supplies in an
organized fashion.
Formerly**

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complicated design topics such as magnetics, feedback loop compensation 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

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template useful for creating a variety of power supplies. This newly revised edition is a practical, "start-to-finish" design reference. It is organized to allow both seasoned and inexperienced engineers to quickly find and apply the information they need. Features of

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**the 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
the power supply to**

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**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
wavershaping
techniques, major
loss reduction
techniques,**

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snubbers, and quasi-
resonant converters.
Guides engineers
through a step-by-
step design
framework for a
wide variety of
power supplies,
many of which can
be designed in less
than one day
Provides easy-to-
understand
information about

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**often complicated
topics, making
power supply
design a much more
accessible and
enjoyable process
The book provides a
comprehensive
overview of Single-
Inductor Multiple-
Output Converters
from both
theoretical and
practical**

Read Online An Isolated Gate Drive For Power MOSFets And Igbts perspectives. Based on the authors' in-depth research, the volume 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

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**hybrid converters.
This book offers a
holistic and
systematic
presentation of all
types of SIMO
converters,
encompassing the
derivation of the
circuit topologies,
the definition of key
concepts, detailed
discussion of
theoretical**

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underpinnings, design methodology and control schemes, as well as design considerations and techniques that enable practical implementation. Specific examples of real-world applications of SIMO converters are also provided. The

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**volume offers a
comprehensive
overview and
systematic
classification of the
traditional and
modern topologies
of SIMO converters
in terms of system
architecture, circuit
analysis, operating
principles, control
methods, design
considerations and**

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**practical
implementation.**

**Specifically, the
book presents the
mathematical
models and design
principles necessary
for analyzing the
behavior of each
kind of SIMO
converter, and
building upon that,
introduces and
imparts new**

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approaches and techniques when designing such converters, guiding engineering students and power engineers towards achieving low-cost, compact and energy efficient SIMO converters. offers the design considerations and optimization as well

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as describing the key applications of SIMO converters. The book fills a significant niche in the power electronics literature and provides a complete perspective on SIMO converters that hopefully can inspire appreciation and better

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**understanding of
the subject matter. It
can be directly
adopted in
undergraduate or
graduate
coursework as well
as postgraduate
research programs.
This thesis
proposes new
power converter
topologies suitable
for aircraft systems.**

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**It also proposes
both AC-DC and DC-
DC types of
converters for
different electrical
loads to improve the
performance these
systems. To
increase fuel
efficiency and
reduce
environmental
impacts, less
efficient non-**

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electrical aircraft systems are being replaced by electrical systems. However, more electrical systems requires more electrical power to be generated in the aircraft. The increased consumption of electrical power in both civil and

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military aircrafts has
necessitated the use
of more efficient
electrical power
conversion
technologies. This
book presents
acomprehensive
mathematical
analysis and the
design and digital
simulation of the
power converters.
Subsequently it

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discusses the construction of the hardware prototypes of each converter and the experimental tests carried out to verify the benefits of the proposed solutions in comparison to the existing solutions. This book describes high frequency power MOSFET gate

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driver technologies, including gate drivers for GaN HEMTs, which have great potential in the next generation of switching power converters. Gate drivers serve as a critical role between control and power devices. In recent years, there has been a trend to

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increase the switching frequency beyond multi-MHz in switching power converters to reduce the passive components and significantly improve power density. However, this results in high switching loss and gate driver loss in power MOSFETs.

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The novel approach in this book is the proposed Current Source Gate Driver (CSD) including different topologies, control and applications. The CSD can reduce the switching transition time and switching loss significantly, and recover high frequency gate

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**driver loss
compared to
conventional
voltage gate drivers.
The basic idea can
also be extended to
other power devices
to improve high
frequency switching
performance such
as SiC MOSFET and
IGBT. Topics
covered in the book
include the state-of-**

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**the-art of power
MOSFET drive
techniques, the
switching loss
model, current
source gate drivers
(CSDs), resonant
gate drivers,
adaptive gate
drivers and GaN
HEMT gate drivers.
The book is
essential reading for
design engineers,**

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**researchers and
advanced students
working in switching
power supplies and
in power electronics
generally.**

**Application of
Fuzzy, Neural, Fuzzy-
neural, and Genetic-
algorithm-based
Techniques
Wide Bandgap
Semiconductor
Power Devices**

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**Artificial-Intelligence-
based Electrical**

**Machines and
Drives**

Pulse Width

Modulation for

Power Converters

GaN Transistors for

Efficient Power

Conversion

Permanent Magnet

Synchronous and

Brushless DC Motor

Drives

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This book provides innovative ideas on achieving sustainable development and using green technologies to conserve our ecosystem.

Innovation is the successful exploitation of a new idea. Through

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innovation, we can
achieve MORE
while using LESS.
Innovations in
science &
technology will not
only help mankind
as a whole, but also
contribute to the
economic growth of
individual countries.
It is essential that
the global problem

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of environmental degradation be addressed immediately, and thus, we need to rethink the concept of sustainable development. Indeed, new environmentally friendly technologies are fundamental to attaining sustainable

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development. The book shares a wealth of innovative green technological ideas on how to preserve and improve the quality of the environment, and how to establish a more resource-efficient and sustainable society. The book provides

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an interdisciplinary approach to addressing various technical issues and capitalizing on advances in computing & optimization for scientific & technological development, smart information, communication, bio-

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monitoring, smart cities, food quality assessment, waste management, environmental aspects, alternative energies, sustainable infrastructure development, etc. In short, it offers valuable information and insights for

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budding engineers,
researchers,
upcoming young
minds and industry
professionals,
promoting
awareness for
recent advances in
the various fields
mentioned above.
The application of
bearingless drives is
emerging as an

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important technique in the areas of high-speed machinery and motion-control, and this book aims to provide a thorough grounding in the principles behind this cutting-edge technology. Basic principles are described in detail with practical

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examples to aid understanding, and the different types of bearingless drives are introduced, along with coverage of test machines and applications. Aimed at practising electrical and mechanical engineers and advanced students,

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Magnetic Bearings
and Bearingless

Drives provides an
essential guide to
an area of
engineering
previously only fully
covered by large
numbers of
academic papers. ·
Unique and
comprehensive
coverage of a

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cutting-edge subject
for electrical and
mechanical
engineers · A
reference text and
survey for
designers,
manufacturers and
users of high-speed
motors, generators
and electrical drive
systems · Examines
the basic principles

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behind magnetic bearings, with key technologies and applications illustrated through examples and case studies

AC Power
Conditioners:

Design and
Applications
provides some
insight into the

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various types of
power line
disturbances,
problems that occur
daily, and their
corresponding
solutions. This book
is organized into
four parts
encompassing 14
chapters; each part
deals with a
different form of

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power protection.

Part I introduces the various types of power-line problems encountered that can be harmful to electronic equipment or the data it contains.

Parts II and III are devoted to noise and surge reduction, as well as power

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line regulation.

These parts describe the use of thyristor regulator, constant-voltage transformer, and linear and switching power-line regulators. Part IV focuses on blackout protection, with particular emphasis on the use of

Read Online An Isolated Gate Drive For Power switching converter, thermal

management, filters,
and inverter control
circuitry. This book
is intended primarily
to students and
researchers.

APEC focuses on
the practical and
applied aspects of
the power
electronics business

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Mosfets And Igbts

The conference addresses issues of immediate and long term importance to practicing power electronics engineer

The IGBT Device
Telecom Power
Systems
Devices, Circuits
and Applications
Power Theories for
Improved Power

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Quality
MOSFETs And IGBTs
Stallion Gate

Power Electronics
Handbook

This book
introduces and
analyses the latest
maximum power
point tracking
(MPPT) techniques,
which can
effectively reduce
the cost of power

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generated from photovoltaic energy systems. It also presents a detailed description, analysis, and comparison of various MPPT techniques applied to stand-alone systems and those interfaced with electric utilities,

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examining their performance under normal and abnormal operating conditions. These techniques, which and can be conventional or smart, are a current hot topic, and this book is a valuable reference resource for

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academic
researchers and
industry
professionals who
are interested in
exploring and
implementing
advanced MPPT for
photovoltaic
systems. It is also
useful for graduate
students who are
looking to expand

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Drive For Power
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their knowledge of
MPPT techniques.

* The first single
volume resource
for researchers in
the field who
previously had to
depend on separate
papers and
conference records
to attain a working
knowledge of the
subject. * Brings

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together the field's
diverse approaches
into an integrated
and comprehensive
theory of PWM

Power quality
describes a set of
parameters of
electric power and
the load's ability to
function properly
under specific
conditions. It is

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estimated that problems relating to power quality costs the European industry hundreds of billions of Euros annually. In contrast, financing for the prevention of these problems amount to fragments of these costs. Power

Read Online An Isolated Gate Drive For Power Theories for MOSFETs And IGBTs Improved Power

Quality addresses this imbalance by presenting and assessing a range of methods and problems related to improving the quality of electric power supply.

Focusing particularly on

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active

compensators and
the DSP based
control algorithms,
Power Theories for
Improved Power
Quality introduces
the fundamental
problems of
electrical power.
This introduction is
followed by
chapters which

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discuss: 'Power theories' including their historical development and application to practical problems, operational principles of active compensator's DSP control based algorithms using examples and results from

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laboratory research, and the key areas of application for these methods and suggested practical solutions. Power Theories for Improved Power Quality is a key study resource for students in engineering and

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technical degrees as well as a reference for professional and practitioners in the electrical energy sector working with power quality.

MEMS devices are found in many of today's electronic devices and systems, from air-

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bag sensors in cars to smart phones, embedded systems, etc. Increasingly, the reduction in dimensions has led to nanometer-scale devices, called NEMS. The plethora of applications on the commercial market speaks for itself,

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and especially for the highly precise manufacturing of silicon-based MEMS and NEMS. While this is a tremendous achievement, silicon as a material has some drawbacks, mainly in the area of mechanical fatigue

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and thermal properties. Silicon carbide (SiC), a well-known wide-bandgap semiconductor whose adoption in commercial products is experiencing exponential growth, especially in the power electronics

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arena. While SiC
MEMS have been
around for decades,
in this Special Issue
we seek to capture
both an overview of
the devices that
have been
demonstrated to
date, as well as
bring new
technologies and
progress in the

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MEMS processing area to the forefront. Thus, this Special Issue seeks to showcase research papers, short communications, and review articles that focus on: (1) novel designs, fabrication, control, and modeling of

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SiC MEMS and NEMS based on all kinds of actuation mechanisms; and (2) new developments in applying SiC MEMS and NEMS in consumer electronics, optical communications, industry, medicine, agriculture, space,

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and defense.
Mosfets And Igbts
Practical Control of
Electric Machines
High Voltage
Isolated Gate Drive
for Power
Switching
Applications
Analysis and
Design of Power
Converter
Topologies for
Application in

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Future More
MOSFETs And IGBTs
Electric Aircraft
Introduction to
EMC

Topologies,
Implementation,
and Applications
*Despite two
decades of
massive strides
in research and
development on*

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control
strategies and
their
subsequent
implementation,
most books on
permanent
magnet motor
drives still
focus primarily
on motor
design,
providing only

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*elementary
coverage of
control and
converters.
Addressing that
gap with
information
that has
largely been
disseminated
only in
journals and at
conferences,*

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Mofets And Igbts
**Permanent
Magnet**

*Synchronous and
Brushless DC
Motor Drives is
a long-awaited
comprehensive
overview of
power
electronic
converters for
permanent
magnet*

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Drive For Power
synchronous
Mosfets And Igbts
machines and
control
strategies for
variable-speed
operation. It
introduces
machines, power
devices,
inverters, and
control, and
addresses
modeling,

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implementation,
MOSFETs And IGBTs
control

*strategies, and
flux weakening
operations, as
well as
parameter
sensitivity,
and rotor
position
sensorless
control.*

Suitable for

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*both industrial
and academic*

*audiences, this
book also
covers the
simulation, low
cost inverter
topologies, and
commutation
torque ripple
of PM brushless
DC motor
drives.*

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*Simulation of
the motor
drives system
is illustrated
with MATLAB®
codes in the
text. This book
is divided into
three parts—fun
damentals of PM
synchronous and
brushless dc
machines, power*

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devices,
Mosfets And Igbts
inverters; PM
synchronous
motor drives,
and brushless
dc motor
drives. With
regard to the
power
electronics
associated with
these drive
systems, the

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author:

Mosfets And Igbts

*Explores use of
the standard
three-phase
bridge inverter
for driving the
machine, power
factor
correction, and
inverter
control
Introduces
space vector*

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modulation step
by step and
contrasts with
PWM Details
dead time
effects in the
inverter, and
its
compensation
Discusses new
power converter
topologies
being

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*considered for
low-cost drive
systems in PM
brushless DC
motor drives
This reference
is dedicated
exclusively to
PM ac machines,
with a timely
emphasis on
control and
standard, and*

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*low-cost
converter
topologies.*

*Widely used for
teaching at the
doctoral level
and for
industrial
audiences both
in the U.S. and
abroad, it will
be a welcome
addition to any*

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engineer's
library.

*This book
explores
integrated gate
drivers with
emphasis on new
gallium nitride
(GaN) power
transistors,
which offer
fast switching
along with*

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minimum

switching

losses. It

serves as a

comprehensive,

all-in-one

source for gate

driver IC

design, written

in handbook

style with

systematic

guidelines. The

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MOSFETs And IGBTs
authors cover
the full range
from
fundamentals to
implementation
details
including
topics like
power stages,
various kinds
of gate drivers
(resonant, non-
resonant,

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*current-source,
voltage-*

*source), gate
drive schemes,
driver supply,
gate loop, gate
driver power
efficiency and
comparison
silicon versus
GaN*

transistors.

Solutions are

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MOSFETs And IGBTs
*presented on
the system and
circuit level
for highly
integrated gate
drivers.
Coverage
includes
miniaturization
by higher
integration of
subfunctions
onto the IC*

Read Online An
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(buffer
MOSFETs And IGBTs
capacitors), as
well as more
efficient
switching by a
multi-level
approach, which
also improves
robustness in
case of
extremely fast
switching
transitions.

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The discussion also includes a concept for robust operation in the highly relevant case that the gate driver is placed in distance to the power transistor. All

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results are
MOSFETs And IGBTs
widely

*applicable to
achieve highly
compact, energy
efficient, and
cost-effective
power*

*electronics
solutions.?*

*The first new
biography in
twenty years of*

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MOSFETs And IGBTs
a beloved New
England writer.

An up-to-date,
practical guide
on upgrading
from silicon to
GaN, and how to
use GaN
transistors in
power
conversion
systems design
This updated,

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MOSFETs And IGBTs
*third edition
of a popular
book on GaN
transistors for
efficient power
conversion has
been
substantially
expanded to
keep students
and practicing
power
conversion*

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MOSFets And Igbts
*engineers ahead
of the learning
curve in GaN
technology
advancements.
Acknowledging
that GaN
transistors are
not one-to-one
replacements
for the current
MOSFET
technology,*

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*this book
serves as a
practical guide
for
understanding
basic GaN
transistor
construction, c
haracteristics,
and
applications.
Included are
discussions on*

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MOSFETs And IGBTs

*the fundamental
physics of
these power
semiconductors,
layout, and
other circuit
design
considerations,
as well as
specific
application
examples
demonstrating*

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design
MOSFETs And IGBTs
techniques when
employing GaN
devices. GaN
Transistors for
Efficient Power
Conversion, 3rd
Edition brings
key updates to
the chapters of
Driving GaN
Transistors;
Modeling,

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Mofets And Ights
*Simulation, and
Measurement of
GaN*

*Transistors; DC-
DC Power
Conversion;
Envelope
Tracking; and
Highly Resonant
Wireless Energy
Transfer. It
also offers new
chapters on*

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*Thermal
Management,
Multilevel
Converters, and
Lidar, and
revises many
others
throughout.
Written by
leaders in the
power
semiconductor
field and*

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industry
pioneers in GaN
power
transistor
technology and
applications
Updated with
35% new
material,
including three
new chapters on
Thermal
Management,

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Multilevel
MOSFETs And IGBTs
Converters,
Wireless Power,
and Lidar
Features
practical
guidance on
formulating
specific
circuit designs
when
constructing
power

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conversion
MOSFETs And IGBTs
systems using

GaN transistors

**A valuable
resource for
professional
engineers,
systems
designers, and
electrical
engineering
students who
need to fully**

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**understand the
state-of-the-
art GaN**

***Transistors for
Efficient Power
Conversion, 3rd
Edition is an
essential
learning tool
and reference
guide that
enables power
conversion***

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*engineers to
design energy-
efficient,
smaller, and
more cost-
effective
products using
GaN*

transistors.

Modern Power

Electronics

Highly

Integrated Gate

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*Drivers for Si
and GaN Power*

Transistors

Design

Fundamentals

Advanced

Electric Drive

Vehicles

Model-Based

Design and

Simulation

Design and

Application

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Mofets And Igbts

Authored by a
team of
acknowledged
experts, this
book presents a
multidisciplina
ry view of the
state of the
art in the
field of
actuators. The
goal of the
book is to

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MOSFETs And IGBTs
provide a
comprehensive
overview of the
properties,
applications,
and potential
applications of
traditional and
unconventional
actuators,
together with
their
corresponding

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power
electronics.

Special
attention is
paid to the
objective
assessment of
competing
actuator
principles. The
book is written
primarily for
designers and

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engineers in
research and
development,
but will also
be valuable as
a textbook for
students of
automation
engineering,
mechatronics
and
adaptronics.

This book

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MOSFETs And IGBTs

presents deep
analysis of
machine control
for different
applications,
focusing on its
implementation
in embedded
systems.

Necessary
peripherals for
various
microcontroller

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MOSFETs And IGBTs
families are
analysed for
machine control
and software
architecture
patterns for
high-quality
software
development
processes in
motor control
units are
described.

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figures help
the reader to
understand the
theoretical,
simulation and
practical
implementation
stages of
machine
control. Model-
based design,
used as a

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mathematical
and visual
approach to
construction of
complex control
algorithms,
code generation
that eliminates
hand-coding
errors, and co-
simulation
tools such as
Simulink, PSIM

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and finite
element

analysis are
discussed. The
simulation and
verification
tools refine,
and retest the
models without
having to
resort to
prototype
construction.

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The book shows how a voltage source inverter can be designed with tricks, protection elements, and space vector modulation.

Practical
Control of
Electric

Machines: Model-

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Drive For Power
MOSFETs And IGBTs
Based Design
and Simulation

is based on the
author's
experience of a
wide variety of
systems in
domestic,
automotive and
industrial
environments,
and most
examples have

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MOSFETs And IGBTs
implemented and
verified

controls. The
text is ideal
for readers
looking for an
insight into
how electric
machines play
an important
role in most
real-life
applications of

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control.
Mosfets And Igbts

Practitioners
and students
preparing for a
career in
control design
applied in
electric
machines will
benefit from
the book's
easily
understood

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**theoretical
approach to
complex machine
control. The
book contains
mathematics
appropriate to
various levels
of experience,
from the
student to the
academic and
the experienced**

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professional.
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Advances in
Industrial
Control reports
and encourages
the transfer of
technology in
control
engineering.
The rapid
development of
control
technology has

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an impact on
all areas of
the control
discipline. The
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an opportunity
for researchers
to present an
extended
exposition of
new work in all
aspects of
industrial

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control.
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A thoroughly
revised third
edition of this
widely praised,
bestselling
textbook
presents a
comprehensive
systems-level
perspective of
electric and
hybrid vehicles

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with emphasis
on technical
aspects,
mathematical
relationships
and basic
design
guidelines. The
emerging
technologies of
electric
vehicles
require the

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dedication of
current and
future
engineers, so
the target
audience for
the book is the
young
professionals
and students in
engineering
eager to learn
about the area.

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The book is
concise and
clear, its
mathematics are
kept to a
necessary
minimum and it
contains a well-
balanced set of
contents of the
complex
technology.

Engineers of

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multiple disciplines can either get a broader overview or explore in depth a particular aspect of electric or hybrid vehicles.

Additions in

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MOSFETs And IGBTs
the third
edition include
simulation-
based design
analysis of
electric and
hybrid vehicles
and their
powertrain
components,
particularly
that of
traction

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inverters,
MOSFETs And IGBTs
electric
machines and
motor drives.
The technology
trends to
incorporate
wide bandgap
power
electronics and
reduced rare-
earth permanent
magnet electric

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**machines in the
powertrain**

**components have
been**

highlighted.

**Charging
stations are a**

critical

component for

the electric

vehicle

infrastructure,

and hence, a

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chapter on
vehicle

interactions
with the power
grid has been
added.

Autonomous
driving is
another
emerging
technology, and
a chapter is
included

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describing the
autonomous
driving system
architecture
and the
hardware and
software needs
for such
systems. The
platform has
been set in
this book for
system-level

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simulations to develop models using various softwares used in academia and industry, such as MATLAB®/Simulink, PLECS, PSIM, Motor-CAD and Altair Flux. Examples and simulation results are

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provided in
this edition
using these
software tools.
The third
edition is a
timely revision
and
contribution to
the field of
electric
vehicles that
has reached

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MOSFETs And IGBTs
recently
notable markets
in a more and
more
environmentally
sensitive
world.

Power Supplies
for LED
Driving, Second
Edition
explores the
wide use of

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light-emitting diodes due to their efficient use of power.

The applications for power LEDs include traffic lights, street lamps, automotive lighting, architectural

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lights, theatre
lighting,
household light
replacements,
signage
lighting
(replacing neon
strip lights
and fluorescent
tubes), LCD
display
backlighting,
and many more.

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Powering (driving) these LED's is not always simple. Linear driving is inefficient and generates far too much heat. With a switching supply, the main issues are EMI,

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efficiency, and
of course cost.

This book
covers the
design trade-
offs involved
in LED driving
applications,
from low-power,
to UB-LEDs and
beyond.

Provides a
practical,

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hands-on
approach to
power supply
design for LED
drivers

Contains
detailed
examples of
what works
throughout the
design process
Presents

commentary on

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how the
calculated
component value
compares with
the actual
value used,
including a
description of
why the choice
was made

Proceedings of
the First
International

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**Conference on
Innovations in
Modern Science
and Technology
Technologies
and
Applications
Power
Electronics and
Motor Drives
SiC based
Miniaturized
Devices**

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**High Frequency
MOSFET Gate**

**Drivers
Materials,
Physics,
Design, and
Applications**

GaN is
considered the
most promising
material
candidate in

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next-generation power device applications, owing to its unique material properties, for example, bandgap, high breakdown field, and high electron mobility.

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Therefore, GaN power device technologies are listed as the top priority to be developed in many countries, including the United States, the European Union, Japan, and China. This

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book presents a comprehensive overview of GaN power device technologies, for example, material growth, property analysis, device structure design,

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fabrication
process,
reliability,
failure analysis,
and packaging.
It provides
useful
information to
both students
and researchers
in academic and
related

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industries
MOSFETs And IGBTs
working on GaN
power devices.
GaN wafer
growth
technology is
from Enkris
Semiconductor,
currently one of
the leading
players in
commercial

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GaN wafers.
Chapters 3 and
7, on the GaN
transistor
fabrication
process and
GaN vertical
power devices,
are edited by
Dr. Zhihong Liu,
who has been
working on GaN

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devices for more
than ten years.
Chapters 2 and
5, on the
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