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The Circuit Designer's
Companion covers the

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theoretical aspects and practices in analogue and digital circuit design. Electronic circuit design involves designing a circuit that will fulfill its specified function and designing the same circuit so that every production model

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of it will fulfill its specified
function, and no other undesired
and unspecified function. This
book is composed of nine
chapters and starts with a review
of the concept of grounding,
wiring, and printed circuits. The

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subsequent chapters deal with
the passive and active
components of circuitry design.
These topics are followed by
discussions of the principles of
other design components,
including linear integrated

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circuits, digital circuits, and
power supplies. The remaining
chapters consider the vital role of
electromagnetic compatibility in
circuit design. These chapters
also look into safety, design of
production, testability, reliability,

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and thermal management of the
designed circuit. This book is of
great value to electrical and
design engineers.

With today's electrical and
electronics systems requiring
increased levels of performance

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and reliability, the design of
robust EMI filters plays a critical
role in EMC compliance. Using a
mix of practical methods and
theoretical analysis, EMI Filter
Design, Third Edition presents
both a hands-on and academic

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approach to the design of EMI filters and the selection of components values. The design approaches covered include matrix methods using table data and the use of Fourier analysis, Laplace transforms, and transfer

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function realization of LC structures. This edition has been fully revised and updated with additional topics and more streamlined content. New to the Third Edition Analysis techniques necessary for passive filter

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realization Matrix method and
transfer function analysis
approaches for LC filter structure
design A more hands-on look at
EMI filters and the overall design
process Through this bestselling
book's proven design

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methodology and practical
application of formal techniques,
readers learn how to develop
simple filter solutions. The
authors examine the causes of
common- and differential-mode
noise and methods of

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elimination, the source and load impedances for various types of input power interfaces, and the load impedance aspect of EMI filter design. After covering EMI filter structures, topologies, and components, they provide insight

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into the sizing of components
and protection from voltage
transients, discuss issues that
compromise filter performance,
and present a goal for a filter
design objective. The text also
includes a matrix method for filter

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design, explains the transfer
function method of LC structures
and their equivalent polynomials,
and gives a circuit design
example and analysis
techniques. The final chapter
presents packaging solutions of

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EMI filters.

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has been updated to cover the latest innovations in technology, materials, and components. This Third Edition presents the basic principles of the most commonly used topologies, providing you with the essential information

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required to design cutting-edge power supplies. Using a tutorial, how-and-why approach, this expert resource is filled with design examples, equations, and charts. The Third Edition of Switching Power Supply Design

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features: Designs for many of the most useful switching power supply topologies The core principles required to solve day-to-day design problems A strong focus on the essential basics of transformer and magnetics

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design New to this edition: a full
chapter on choke design and
optimum drive conditions for
modern fast IGBTs Get
Everything You Need to Design
a Complete Switching Power
Supply: Fundamental Switching

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Regulators * Push-Pull and
Forward Converter Topologies *
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Current-Fed Topologies *
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Postregulators * Turn-on, Turn-off Switching Losses and Low Loss Snubbers * Feedback-Loop Stabilization * Resonant Converter Waveforms * Power Factor and Power Factor Correction * High-Frequency

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Power Sources for Fluorescent
Lamps, and Low-Input-Voltage
Regulators for Laptop
Computers and Portable
Equipment

A hands-on guide to finding the
sources of electromagnetic

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interference and then fixing the
problems. Includes basic theory
of EMI as well as detailed
explanations of why this problem
is becoming more serious as the
international scope of the
communications and electronics

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industries grow. This book is not
a textbook, but rather a
handbook that will become a
constant source of reference for
anyone who runs into trouble
with EMI. Includes chapters on
grounding, circuit shielding and

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filtering, preventing EMI in circuit design, as well as EMI sources such as power lines, transmitters, television, consumer electronics, telephones, automobiles, and the ever-frustrating mystery EMI.

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There are very few other books available even though EMI is constantly discussed and cursed. Most of the books on the market are about how to prevent EMI in circuit design or approaches to understanding the theory behind

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EMI. Though this information is important, especially to an engineering audience, these books hold no value at all to the technicians and hands-on practitioners in the fields of communications and

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servicing. These savvy professionals know that the book they are looking for and need is just not on the market. To get the information they need, this group is forced to read every magazine article they can find on the

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subject and rely on the advice of
other professionals whether
through technician groups or
newsgroups. This book fills a
void in the telecommunications
and electronics industries by
providing practical

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troubleshooting information.
Addresses the technician's
needs and interests Written by
an eminent authority in the field
Covers correction and prevention
of problems with EMI
PCB Design for Real-World EMI

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The Circuit Designer's
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***"Preface I have had many
requests to update my
book Transformer and
Inductor Design
Handbook, because of the***

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***way power electronics
has changed in the past
few years. I have been
requested to add and
expand on the present
Chapters. There are now
twenty-six Chapters. The***

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***new Chapters are
autotransformer design,
common-mode inductor
design, series saturable
reactor design, self-
saturating magnetic
amplifier and designing***

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***inductors for a given
resistance, all with step-
by-step design examples.
This book offers a
practical approach with
design examples for
design engineers and***

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system engineers in the electronics industry, as well as the aerospace industry. While there are other books available on electronic transformers, none of them seem to

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***have been written with
the user's viewpoint in
mind. The material in this
book is organized so that
the design engineer,
student engineer or
technician, starting at the***

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***beginning of the book
and continuing through
the end, will gain a
comprehensive
knowledge of the state of
the art in transformer
and inductor design. The***

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engineers and system
engineers will find this
book a useful tool when
designing or evaluating
transformers and
inductors. Transformers***

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lightweight, high-
frequency aerospace
transformers or low-***

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***frequency commercial
transformers. It is,
therefore, a design
manual" --***

***Extensively revised and
expanded to present the
state-of-the-art in the***

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***field of magnetic design,
this third edition
presents a practical
approach to transformer
and inductor design and
covers extensively
essential topics such as***

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***the area product, A_p , and
core geometry, K_g . The
book provides complete
information on magnetic
materials and core
characteristics using step-
by-step design examples***

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**and presents all the key
components for the
design of lightweight,
high-frequency aerospace
transformers or low-
frequency commercial
transformers. Written by**

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***a specialist with more
than 47 years of
experience in the field,
this volume covers
magnetic design theory
with all of the relevant
formulas.***

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***Fundamentals of Power
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Edition, is an up-to-date
and authoritative text
and reference book on
power electronics. This
new edition retains the***

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***original objective and
philosophy of focusing on
the fundamental
principles, models, and
technical requirements
needed for designing
practical power electronic***

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***systems while adding a
wealth of new material.
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new edition include: A
new chapter on input
filters, showing how to
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material on averaged
switch modeling, low-
harmonic rectifiers, and
the chapter on AC
modeling of the**

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**commutated pole. Also,
new sections on design of
multiple-winding
magnetic and resonant
inverter design;
Additional appendices on
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modeling, and
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***treatment of current
programmed control with
complete results for basic
converters, and much
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includes many new
examples, illustrations,***

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***and exercises to guide
students and
professionals through the
intricacies of power
electronics design.
Fundamentals of Power
Electronics, Second***

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***Edition, is intended for
use in introductory power
electronics courses and
related fields for both
senior undergraduates
and first-year graduate
students interested in***

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**converter circuits and
electronics, control
systems, and magnetic
and power systems. It
will also be an invaluable
reference for
professionals working in**

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***power electronics, power
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Filter Design does not
start from a position of***

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***mathematical complexity.
It is written to show
readers how to design
effective and working
electronic filters. The
background information
and equations from the***

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***first edition have been
moved into an appendix
to allow easier flow of the
text while still providing
the information for those
who are interested. The
addition of questions at***

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simulation tools has
allowed for a more
practical, user-friendly
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electronic filters Includes
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tools Keeps heavy
mathematics to a
minimum***

Analog and Digital Filter

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Design

**EMI Filter Design, Third
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**Electromagnetic
Compatibility**

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Handbook**

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Fundamentals of Power Electronics

The operational amplifier ("op amp") is the most versatile and widely used type of analog IC, used in audio and voltage amplifiers, signal

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conditioners, signal
converters, oscillators, and
analog computing systems.
Almost every electronic
device uses at least one op
amp. This book is Texas
Instruments' complete

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professional-level tutorial and
reference to operational
amplifier theory and
applications. Among the
topics covered are basic op
amp physics (including
reviews of current and

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voltage division, Thevenin's theorem, and transistor models), idealized op amp operation and configuration, feedback theory and methods, single and dual supply operation, understanding op

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amp parameters, minimizing
noise in op amp circuits, and
practical applications such as
instrumentation amplifiers,
signal conditioning,
oscillators, active filters, load
and level conversions, and

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analog computing. There is
also extensive coverage of
circuit construction
techniques, including circuit
board design, grounding, input
and output isolation, using
decoupling capacitors, and

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frequency characteristics of
passive components. The
material in this book is
applicable to all op amp ICs
from all manufacturers, not
just TI. Unlike textbook
treatments of op amp theory

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that tend to focus on idealized op amp models and configuration, this title uses idealized models only when necessary to explain op amp theory. The bulk of this book is on real-world op amps and

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their applications;
considerations such as
thermal effects, circuit noise,
circuit buffering, selection of
appropriate op amps for a
given application, and
unexpected effects in passive

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components are all discussed
in detail. *Published in
conjunction with Texas
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guide to op amp theory and
applications *Covers circuit

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board layout techniques for
manufacturing op amp
circuits.

Proper design of printed
circuit boards can make the
difference between a product
passing emissions

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requirements during the first
cycle or not. Traditional EMC
design practices have been
simply rule-based, that is, a
list of rules-of-thumb are
presented to the board
designers to implement.

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When a particular rule-of-thumb is difficult to implement, it is often ignored. After the product is built, it will often fail emission requirements and various time consuming and costly

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add-ons are then required.

Proper EMC design does not require advanced degrees from universities, nor does it require strenuous mathematics. It does require a basic understanding of the

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underlying principles of the
potential causes of EMC
emissions. With this basic
understanding, circuit board
designers can make trade-off
decisions during the design
phase to ensure optimum

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EMC design. Consideration of these potential sources will allow the design to pass the emissions requirements the first time in the test laboratory. A number of other books have been published on

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EMC. Most are general books
on EMC and do not focus on
printed circuit board is
intended to help EMC
engineers and design design.
This book engineers
understand the potential

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sources of emissions and how
to reduce, control, or
eliminate these sources. This
book is intended to be a
'hands-on' book, that is,
designers should be able to
apply the concepts in this

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book directly to their designs
in the real-world.

Fundamentals of Power
Electronics, Third Edition, is
an up-to-date and
authoritative text and
reference book on power

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electronics. This new edition retains the original objective and philosophy of focusing on the fundamental principles, models, and technical requirements needed for designing practical power

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electronic systems while
adding a wealth of new
material. Improved features
of this new edition include:
new material on switching
loss mechanisms and their
modeling; wide bandgap

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semiconductor devices; a
more rigorous treatment of
averaging; explanation of the
Nyquist stability criterion;
incorporation of the Tan and
Middlebrook model for
current programmed control;

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a new chapter on digital
control of switching
converters; major new
chapters on advanced
techniques of design-oriented
analysis including feedback
and extra-element theorems;

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average current control; new material on input filter design; new treatment of averaged switch modeling, simulation, and indirect power; and sampling effects in DCM, CPM, and digital control.

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Fundamentals of Power Electronics, Third Edition, is intended for use in introductory power electronics courses and related fields for both senior undergraduates and first-year

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graduate students interested
in converter circuits and
electronics, control systems,
and magnetic and power
systems. It will also be an
invaluable reference for
professionals working in

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power electronics, power conversion, and analog and digital electronics. Includes an increased number of end of chapter problems; Updated and reorganized, including three completely new

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chapters; Includes key
principles and a rigorous
treatment of topics.

Anyone who has operated,
serviced, or designed an
automobile or truck in the last
few years has most certainly

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noticed that the age of electronics in our vehicles is here! Electronic components and systems are used for everything from the traditional entertainment system to the latest in “drive

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by wire ” , to two-way
communication and
navigation. The interesting
fact is that the automotive
industry has been based upon
mechanical and materials
engineering for much of its

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history without many of the
techniques of electrical and
electronic engineering. The
emissions controls
requirements of the 1970 ' s
are generally recognized as
the time when electronics

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started to make their way
into the previous
mechanically based systems
and functions. While this
revolution was going on, the
electronics industry
developed issues and

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concepts that were addressed to allow interoperation of the systems in the presence of each other and with the external environment. This included the study of electromagnetic compatibility,

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as systems and components
started to have influence
upon each other just due to
their operation. EMC
developed over the years,
and has become a specialized
area of engineering applicable

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to any area of systems that included electronics. Many well-understood aspects of EMC have been developed, just as many aspects of automotive systems have been developed. We are now

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at a point where the issues of
EMC are becoming more and
more integrated into the
automotive industry.

Clues and Solutions
Renewable Energy for Smart
and Sustainable Cities

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Switching Power Supplies A
to Z

Power Electronics Handbook
Transformer and Inductor
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*The 3rd edition of
Controlling Radiated*

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Emissions by Design has been updated to reflect the latest changes in the field. New to this edition is material on aspects of technical advance, specifically long term energy efficiency, energy

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*saving, RF pollution
control, etc. This book
retains the step-by-step
approach for incorporating
EMC into every new design,
from the ground up. It
describes the selection of
quieter IC technologies,*

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their implementation into a
noise-free printed circuit
layout, and the gathering of
all these into low radiation
packaging, including I/O
filtering, connectors and
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*thorough and comprehensive
calculated examples. Design
engineers, EMC specialists
and technicians will benefit
from learning about the
development of more
efficient and economical
control of emissions.*

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*Using an accessible yet
rigorous approach, Active
Filters: Theory and Design
highlights the essential
role of filters, especially
analog active filters, in
applications for seismology,
brainwave research, speech*

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*and hearing studies, and
other medical electronics.
The book demonstrates how to
design filters capable of
meeting a given set of
specifications. Recognizing
that circuit simulation by
computer has become an*

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*indispensable verification
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tool both in analysis and in
design, the author
emphasizes the use of
MicroCap for rapid test of
the filter. He uses three
basic filter types
throughout the book:*

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Butterworth, Chenyshev, and Bessel. These three types of filters are implemented with the Sallen-Key, infinite gain multiple feedback, state-variable, and biquad circuits that yield low-pass, high-pass, band-pass,

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and band-reject circuits.

The book illustrates many
examples of low-pass, high-
pass, band-pass, and notch
active filters in complete
detail, including frequency
normalizing and
denormalizing techniques.

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Design equations in each chapter provide students with a thorough grounding in how to implement designs. This detailed theoretical treatment gives you the tools to teach your students how to master filter design

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and analysis.

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favorite RF circuit guide of thousands of electronics enthusiasts takes you inside wireless technology with step-by-step, illustrated directions for dozens of usable projects. This super guide demonstrates RF theory

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*as it shows you how to
overcome the technical and
materials challenges facing
those who build real-world
electronics. You learn how
to design and build receiver
circuits, RF bridges,
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*preselectors, simple
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spectrum analyzers, and time
domain reflectometers. You
get detailed insights into
simple RF instruments, as
well as UHF and microwave
components...complete
troubleshooting*

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*guidance...and handy parts
lists and components
sources. This new edition
packs the latest information
on directional and hybrid
couplers, and seven new
chapters on demodulators,
circuit vectors, measuring L-*

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C circuits, and filtering
circuits against EMI. "...a
great book on wireless
technology for persons
starting out in RF
electronics, as well as for
RF technicians and ham radio
operators." ---Cotter W.

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*Sayre, author of The
Complete RF Technician's
Handbook (Amazon.com review)
This detailed reference
provides guidelines for the
selection and utilization of
electric motors for improved
reliability, performance,*

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energy-efficiency, and life-cycle cost. Completely revised and expanded, the book reflects the recent state of the field, as well as recent developments in control electronics, the economics of energy-

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*efficient motors and
systems, and advanced power
electronic drivers. It
includes five new chapters
covering key topics such as
the fundamentals of power
electronics applicable to
electric motor drives,*

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*adjustable speed drives and
their applications, advanced
switched reluctance motor
drives, and permanent magnet
and brushless DC motor
drives.*

*Electromagnetic
Compatibility Engineering*

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*Secrets of RF Circuit Design
Power-Switching Converters,
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*Op Amps for Everyone
Devices, Circuits and
Applications*

Presenting current issues in electric
motor design, installation, application,

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and performance, this second edition serves as the most authoritative and reliable guide to electric motor utilization and assessment in the commercial and industrial sectors. Covering topics ranging from motor energy and efficiency to computer-aided design and equipment selection,

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this reference assists professionals in all aspects of electric motor maintenance, repair, and optimization. It has been expanded by more than 40 percent to explore the most influential technologies in the field including electronic controls, superconducting generators, recent analytical tools,

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new computing capabilities, and
special purpose motors.

Weighing in on the growth of
innovative technologies, the adoption
of new standards, and the lack of
educational development as it relates
to current and emerging applications,
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Instrumentation and Measurements
uses the authors' 40 years of teaching
experience to expound on the theory,
science, and art of modern
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(I&M). What's New in This Edition:
This edition includes material on
modern integrated circuit (IC) and

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photonic sensors, micro-electro-
mechanical (MEM) and nano-electro-
mechanical (NEM) sensors, chemical
and radiation sensors, signal
conditioning, noise, data interfaces,
and basic digital signal processing
(DSP), and upgrades every chapter
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contains new material on the designs of micro-electro-mechanical (MEMS) sensors, adds two new chapters on wireless instrumentation and microsensors, and incorporates extensive biomedical examples and problems. Containing 13 chapters, this third edition: Describes sensor

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dynamics, signal conditioning, and data display and storage Focuses on means of conditioning the analog outputs of various sensors Considers noise and coherent interference in measurements in depth Covers the traditional topics of DC null methods of measurement and AC null

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measurements Examines Wheatstone
and Kelvin bridges and potentiometers
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mechanisms Includes a description
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giant magnetoresistive effect (GMR)

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and the anisotropic magnetoresistive (AMR) effect Provides a detailed analysis of mechanical gyroscopes, clinometers, and accelerometers Contains the classic means of measuring electrical quantities Examines digital interfaces in measurement systems Defines digital

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signal conditioning in instrumentation
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microsensors and wireless
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microsensors (MEMS and NEMS)
Details examples of the design of
measurement systems Introduction to
Instrumentation and Measurements is

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written with practicing engineers and scientists in mind, and is intended to be used in a classroom course or as a reference. It is assumed that the reader has taken core EE curriculum courses or their equivalents.

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understanding of Phase Locked Loop architectures and their applications. It provides a unique balance between both theoretical perspectives and practical design trade-offs. Engineers faced with real world design problems will find this book to be a valuable reference providing example

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implementations, the underlying equations that describe synthesizer behavior, and measured results that will improve confidence that the equations are a reliable predictor of system behavior. New material in the Fourth Edition includes partially integrated loop filter implementations,

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voltage controlled oscillators, and
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modulation using the PLL.

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the design, problem solving, and testing of electromagnetic compatibility (EMC) in electrical and electronic equipment and systems. This new edition provides novel information on theory, applications, evaluations, electromagnetic computational programs, and prediction techniques

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available. With sixty-nine schematics providing examples for circuit level electromagnetic interference (EMI) hardening and cost effective EMI problem solving, this book also includes 1130 illustrations and tables. Including extensive data on components and their correct

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implementation, the myths,
misapplication, misconceptions, and
fallacies that are common when
discussing EMC/EMI will also be
addressed and corrected.

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Power Line Filter Design for Switched-
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Power Supply Cookbook

*EMI Filter Design, Third
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*Power electronics, which is a
rapidly growing area in terms*

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*of research and applications,
uses modern electronics
technology to convert electric
power from one form to
another, such as ac-dc, dc-dc,
dc-ac, and ac-ac with a
variable output magnitude and*

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frequency. Power electronics has many applications in our every day life such as air-conditioners, electric cars, subway trains, motor drives, renewable energy sources and power supplies for computers.

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*This book covers all aspects of
switching devices, converter
circuit topologies, control
techniques, analytical methods
and some examples of their
applications. * 25% new
content * Reorganized and*

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*revised into 8 sections
comprising 43 chapters *
Coverage of numerous
applications, including
uninterruptable power supplies
and automotive electrical
systems * New content in*

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*power generation and
distribution, including solar
power, fuel cells, wind
turbines, and flexible
transmission*
*Annotation In this revised and
expanded edition, Ozenbaugh,*

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a consultant specializing in magnetics and EMI filters, describes the selection of cores, capacitors, mechanical shapes, and styles for the timeliest design, construction, and testing of filters and

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analyzes matrices of various filter types based on close approximations, observation, and trial and error. The second edition explores new data on spike, pulse, trapezoid, and quasisquare waves, and

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filters. Annotation c. Book
News, Inc., Portland, OR
(booknews.com).
Presents a methodical
approach to locating the cause
of and correcting EMI/RFI*

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breakdowns. This book gives you hands-on, optimal solutions whether your task is design, lab testing, or on-site troubleshooting, no matter what type of electronic equipment you're handling.

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Design Handbook, Third Edition
Significantly expanded and
updated with extensive revisions,
new material, and a new chapter
on emerging applications of
switching converters, Power-
Switching Converters, Third

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Chapters begin with an
introduction to switching
converters and basic switching
converter topologies. Entry level
chapters continue with a
discussion of resonant
converters, isolated switching

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*converters, and the control
schemes of switching converters.
Skipping to chapters 10 and 11,
the subject matter involves an
examination of interleaved
converters and switched
capacitor converters to round out*

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*and complete the overview of
switching converter topologies.
More detailed chapters include
the continuous time-modeling
and discrete-time modeling of
switching converters as well as
analog control and digital control.*

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Advanced material covers tools for the simulation of switching converters (including both PSpice and Matlab simulations) and the basic concepts necessary to understand various actual and emerging applications for

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*switching converters, such as
power factor correction, LED
drivers, low-noise converters,
and switching converters
topologies for solar and fuel cells.
The final chapter contains
several complete design*

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

Supplementary information is available at crcpress.com including slides, PSpice

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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.*

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Design and Magnetics Chapter 3:

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6: Component Ratings, Stresses,
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Optimal Power Components
Selection Chapter 8: Conduction
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*Chapter 10: Printed Circuit Board
Layout Chapter 11: Thermal
Management Chapter 12:
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Stability Chapter 13: Paralleling,
Interleaving and Sharing Chapter
14: The Front-End of AC-DC*

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*Power Supplies Chapter 15: DM
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Power Supplies Chapter 16:
Fixing EMI across the Board
Chapter 17: Input Capacitor and
Stability Chapter 18: The Math
behind the Electromagnetic*

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*Puzzle Chapter 19: Solved
Examples Appendix A.*

*Electrical Engineering 101 covers
the basic theory and practice of
electronics, starting by answering
the question "What is electricity?"
It goes on to explain the*

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*fundamental principles and
components, relating them
constantly to real-world
examples. Sections on tools and
troubleshooting give engineers
deeper understanding and the
know-how to create and maintain*

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their own electronic design projects. Unlike other books that simply describe electronics and provide step-by-step build instructions, EE101 delves into how and why electricity and electronics work, giving the

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*fundamentals and shows how
they can be applied to a range of
engineering problems. This third
edition includes more real-world
examples and a glossary of
formulae. It contains new
coverage of: Microcontrollers*

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FPGAs Classes of components

Memory (RAM, ROM, etc.)

Surface mount High speed

design Board layout Advanced

digital electronics (e.g.

processors) Transistor circuits

and circuit design Op-amp and

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*logic circuits Use of test
equipment Gives readers a
simple explanation of complex
concepts, in terms they can
understand and relate to
everyday life. Updated content
throughout and new material on*

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*the latest technological
advances. Provides readers with
an invaluable set of tools and
references that they can use in
their everyday work.*

*Electronics professionals will find
this book invaluable when*

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*designing power equipment,
because it describes in detail
how to cope with the problem of
electromagnetic interference. The
author shows how to meet the
exacting US and European EMC
standards for conducted*

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emissions. The book includes a wide range of EMI analysis techniques. An important focus is on the energy content of interference transient signals (traditional analysis concentrates on amplitude and frequency).

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This provides a more accurate picture of the EMI situation. For those who do not want or need detailed analysis techniques, many approximation methods are also provided. These simplified techniques give accurate results

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for all but the most stringent applications. The book contains several worked examples and an extensive bibliography, and is sure to be useful to electronic design engineers and others who need to meet international EMC

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regulations and standards.

*Laszlo Tihanyi has worked on
EMC for over 20 years. Formerly
Head of the Department of Power
Electronics at the Hungarian
Research Institute for the
Electrical Industry, he focused*

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*primarily on solving EMI
problems in electronic systems
and developing a dimensioning
method for power line filters.
PLL Performance, Simulation and
Design
The Art of Electronics*

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*Modeling and Design of
Electromagnetic Compatibility for
High-Speed Printed Circuit
Boards and Packaging
Introduction to Instrumentation
and Measurements
Electromagnetic Compatibility in*

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Power Electronics

Praise for Noise Reduction
Techniques IN electronic
systems "Henry Ott has
literally 'written the
book' on the subject of
EMC. . . . He not only

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knows the subject, but has
the rare ability to
communicate that knowledge
to others." —EE Times
Electromagnetic
Compatibility Engineering
is a completely revised,

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expanded, and updated
version of Henry Ott's
popular book Noise
Reduction Techniques in
Electronic Systems. It
reflects the most recent
developments in the field

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of electromagnetic
compatibility (EMC) and
noise reduction, and their
practical applications to
the design of analog and
digital circuits in
computer, home

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entertainment, medical,
telecom, industrial
process control, and
automotive equipment, as
well as military and
aerospace systems. While
maintaining and updating

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the core information—such as cabling, grounding, filtering, shielding, digital circuit grounding and layout, and ESD—that made the previous book such a wide success, this

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new book includes
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additional coverage of:
Equipment/systems
grounding Switching power
supplies and variable-
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circuit power distribution

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PCB layout RF and
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appendices on dipole
antennae, the theory of
partial inductance, and
the ten most common EMC
problems The concepts
presented are applicable
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circuits operating from
below audio frequencies to
those in the GHz range.

Throughout the book, an
emphasis is placed on cost-
effective EMC designs,
with the amount and

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complexity of mathematics
kept to the strictest
minimum. Complemented with
over 250 problems with
answers, Electromagnetic
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knowledge needed to design
electronic equipment that
is compatible with the
electromagnetic
environment and compliant
with national and
international EMC

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knowledge of electronics
can create a very
complicated power supply
design in less than one
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presented in each section,
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the reader to design
linear, switching, and
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power supplies in an

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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

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quickly find and apply the
information they need.

Features of the new
edition include updated
information on the design
of the output stages,
selecting the controller

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IC, and other functions associated with power supplies, such as: switching power supply control, synchronization of the power supply to an external source, input low

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voltage inhibitors, loss
of power signals, output
voltage shut-down, major
current loops, and
paralleling filter
capacitors. It also offers
coverage of waveshaping

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techniques, major loss
reduction techniques,
snubbers, and quasi-
resonant converters.

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variety of power supplies,
many of which can be
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understand information
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supply design a much more
accessible and enjoyable
process

Modeling and Design of
Electromagnetic
Compatibility for High-
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presents the
electromagnetic modelling
and design of three major
electromagnetic
compatibility (EMC) issues
related to the high-speed

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printed circuit board
(PCB) and electronic
packages: signal integrity
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interference (EMI). The
emphasis is put on two

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essential passive
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components of PCBs and
packages: the power
distribution network and
the signal distribution
network. This book
includes two parts. Part

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one talks about the field-
circuit hybrid methods
used for the EMC modeling,
including the modal
method, the integral
equation method, the
cylindrical wave expansion

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method and the de-embedding method. Part two illustrates EMC design methods and explores the applications of novel metamaterials and two-dimensional materials on

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enhance worthwhile
electromagnetic theory and
mathematical methods for
practical engineers and to
train students with

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advanced EMC applications.

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Small Signal Audio Design

is a highly practical

handbook providing an

extensive repertoire of

circuits that can be

assembled to make almost

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any type of audio system.

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freed up space for new
material, (though this
book still contains a lot
on moving-magnet and

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moving-coil electronics)
and this fully revised
third edition offers
wholly new chapters on
tape machines, guitar
electronics, and variable-
gain amplifiers, plus much

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more. A major theme is the use of inexpensive and readily available parts to obtain state-of-the-art performance for noise, distortion, crosstalk, frequency response

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accuracy and other
parameters. Virtually
every page reveals nuggets
of specialized knowledge
not found anywhere else.
For example, you can
improve the offness of a

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fader simply by adding a resistor in the right place- if you know the right place. Essential points of theory that bear on practical audio performance are lucidly

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and thoroughly explained,
with the mathematics kept
to an absolute minimum.

Self's background in
design for manufacture
ensures he keeps a wary
eye on the cost of things.

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This book features the
engaging prose style
familiar to readers of his
other books. You will
learn why mercury-filled
cables are not a good
idea, the pitfalls of

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Trek have to do with PCB
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that can handle enormous
signals with vanishingly
low distortion use humble
low-gain transistors to
make an amplifier with an
input impedance of more
than 50 megohms transform

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that have noise so low it
is limited by basic
physics, by using load
synthesis sum, switch,
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audio signals be confident
that phase perception is
not an issue This expanded
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material on optimising
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10.27
electronics for ribbon
microphones, summation of
noise sources, defining
system frequency response,
loudness controls, and
much more. Including all
the crucial theory, but

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with minimal mathematics,
Small Signal Audio Design
is the must-have companion
for anyone studying,
researching, or working in
audio engineering and
audio electronics.

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Small Signal Audio Design
Theory and Design

Noise Reduction Techniques
in Electronic Systems

Automotive Electromagnetic
Compatibility (EMC)

EMI Filter Design

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Circuits are faster and more tightly packed than ever, wireless technologies increase the electromagnetic (EM) noise environment, new materials entail entirely new immunity issues, and new standards govern the field of

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electromagnetic compatibility (EMC).

*Maintaining the practical and
comprehensive approach of its
predecessor, Principles and
Techniques of Electromagnetic
Compatibility, Second Edition reflects
these emerging challenges and new*

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technologies introduced throughout the decade since the first edition appeared. What's new in the Second Edition? Characterization and testing for high-speed design of clock frequencies up to and above 6 GHz Updates to the regulatory framework

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10 27
*governing EM compliance Additional
coverage of the printed circuit board
(PCB) environment as well as
additional numerical tools An entirely
new section devoted to new
applications, including signal
integrity, wireless and broadband*

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*technologies, EMC safety, and
statistical EMC Added coverage of
new materials such as nanomaterials,
band gap devices, and composites
Along with new and updated content,
this edition also includes additional
worked examples that demonstrate*

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how estimates can guide the early stages of design. The focus remains on building a sound foundation on the fundamental concepts and linking this to practical applications, rather than supplying application-specific fixes that do not easily generalize to

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other areas.

Most introductory textbooks in electronics focus on the theory while leaving the practical aspects to be covered in laboratory courses.

However, the sooner such matters are introduced, the better able students

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will be to include such important concerns as parasitic effects and reliability at the very earliest stages of design. This philosophy has kept Electronic Components and Technology thriving for two decades, and this completely updated third

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*edition continues the approach with a
more international outlook. Not only
does this textbook introduce the
properties, behavior, fabrication, and
use of electronic components, it also
helps students grasp and apply sound
engineering practice by incorporating*

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in-depth discussions on topics such as safety and reliability. The author employs a holistic treatment that clearly demonstrates how electronic components and subsystems work together, reinforcing the concepts with numerous examples, case studies,

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problems, illustrations, and objectives.

This edition was updated to reflect advances and changes to industrial practice, including packaging technologies, digital oscilloscopes, lead-free solders, and new battery technologies. Additionally, the text's

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*scope now extends to include
terminology and standards used
worldwide. Including coverage of
topics often ignored in other textbooks
on the subject, Electronic Components
and Technology, Third Edition
encourages students to be better, more*

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thoughtful designers and prepares them with current industrial practices. This updated and expanded version of the very successful first edition offers new chapters on controlling the emission from electronic systems, especially digital systems, and on low-

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cost techniques for providing electromagnetic compatibility (EMC) for consumer products sold in a competitive market. There is also a new chapter on the susceptibility of electronic systems to electrostatic discharge. There is more material on

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*FCC regulations, digital circuit noise
and layout, and digital circuit
radiation. Virtually all the material in
the first edition has been retained.
Contains a new appendix on FCC
EMC test procedures.*

International Conference on

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*Artificial Intelligence in Renewable
Energetic Systems, IC-AIRES2019,
26-28 November 2019, Taghit-
Bechar, Algeria. The challenges of
the energy transition in the medium
term lead to numerous technological
breakthroughs in the areas of*

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10 27
*production, optimal distribution and
the rational use of energy and
renewable energy (energy efficiency
and optimization of consumption,
massive electrification, monitoring
and control energy systems,
cogeneration and energy recovery*

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*processes, new and renewable
10 27
energies, etc.). The fall in the cost of
renewable energies and the desire for
a local control of energy production
are today calling for a profound
change in the electricity system. Local
authorities are at the center of energy*

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*developments by taking into account
the local nature of certain energy
systems, heat networks, geothermal
energy, waste heat recovery, and
electricity generation from household
waste. On the other side, digital
sciences are at the heart of connected*

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*objects and intelligent products that
combine information processing and
communication capabilities with their
environment. Digital technology is at
the center of new systems engineering
approaches (3D modeling,
virtualization, simulation, digital*

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*prototyping, etc.) for the design and
development of intelligent systems.*

*The book deals with various topics
ranging from the design, development
and maintenance of energy
production systems, transport,
distribution or storage of energy,*

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*optimization of energy efficiency,
especially in the use of energy.*

*innovation in the fields of energy
production from renewable energies,
management of energy networks:
electricity, fluids, gas, district heating,
energy storage modes: battery, super-*

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*capacitors , overseeing energy supply
through supervision, control and
diagnosis, risk management, as well
as the design and management of
smart grids: microgrid, smartgrid.
This imposes the model of energy
empowerment in the advent of smart*

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*cities. Empower the world's most
vulnerable energy-poor citizens and
establish growing and vibrant
socioeconomic communities, by
academics, students in engineering
and data computing from around the
world who have chosen an academic*

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*path leading to an electric power and
energy engineering and artificial
intelligence to advancing technology
for the advantage of humanity.
Energy-Efficient Electric Motors,
Revised and Expanded
Active Filters*

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*Controlling Radiated Emissions by
Design*

*Everything You Should Have Learned
in School...but Probably Didn't*