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author and contributors do a fine job of explaining the reasons why radiated emissions occur, both in theory and in practice, then use lots of visual examples to show how to minimize or eliminate

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problems. While the purpose of this book is to help your product pass emissions requirements, you'll learn enough to do more than just pass and produce robust designs.

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review:
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This new edition
of Controlling
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Emissions by
Design retains
the step-by-step
approach for
incorporating
EMC into every
new design, from

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the ground up.
Quite different
from other
classical EMC
books, it
approaches the
problem from a
development
engineer's
viewpoint,
starting with
the selection of
quieter IC
technologies,

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controlling
implementation
into a noise-
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circuit layout,
and the
gathering of all
these into a low
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packaging,
including I/O
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connectors and

...

Where To Download Controlling Controlling Radiated Emissions by Design (The Springer ...

Throughout the book, details are given to control RF emissions using EMC design techniques. This book retains the

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step-by-step approach for incorporating EMC into every new design from the ground up. It describes the selection of quieter IC technologies, their implementation into a noise-free printed

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circuit layout,
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In all possible industrial, military and household/personal applications, the number of digital devices operating with data rates of hundreds of Megabits, using processor chips with Gigahertz clocks, has

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increased
astronomically.
At the same
time, a myriad
of popular RF
receivers like
portable
telephones,
laptop PCs with
integrated
wireless modems,
wireless
Internet, and
other electronic

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devices, are becoming ubiquitous, such that the number of sensitive, licit receivers operating within a square kilometer of an urban area can be counted in tens of thousands. In the crowded

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space that they share, the conjunction of both events is increasing the number of potential interference situations, especially in the upper VHF and UHF regions where spurious radiations are

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most difficult
to contain.

There is, in
addition, a
growing,
although
controversial,
concern about
the possible
health hazard
caused by long
exposure to near
fields of low
power radio

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transmitters.

All these aspects result in a continuous effort for lowering RF radiations. This new edition of Controlling Radiated Emissions by Design retains the step-by-step approach for

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incorporating
EMC into every
new design, from
the ground up.

Quite different
from other
classical EMC
books, it
approaches the
problem from a
development
engineer's
viewpoint,
starting with

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the selection of
quieter IC
technologies,
their

implementation
into a noise-
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circuit layout,
and the
gathering of all
these into a low
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packaging,
including I/O

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filtering,
connectors and
cables
considerations.

Equally far from
a cookbook of
recipes, all
guidelines are
supported by
thorough, but
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and
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calculated

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examples,
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spectra and
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components. Also
included is
detailed
information on
radiation from
high-speed chips
(e.g. Pentium
>200 MHz) and
the efforts by

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some manufacturers to reduce it. The book has numerous tables, all of which have been updated to reflect the latest changes in the field, including a brief overview of the U.S. and

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worldwide
emission tests.
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Emissions By
Design is an
invaluable tool
for helping
design
engineers, EMC
specialists and
technicians
develop more
efficient and

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This book
presents a
useful way to
"design in"
electromagnetic
compatibility
(EM C). EMC
design
considerations
are often an

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addendum to the design. These Band-Aid fixes are not the best approach most of the time but are all that is possible at a late stage in the design and development process. This book is not the classic "EMI fix

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"Controlling Radiated Emissions By Design Cookbook"; it is intended for all electronics design

engineers. The analytical tools presented enable the designer to address EMC considerations early in the design process. Power conversion engineers will

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find the
enclosed
information
especially
important
because of the
inherent
conducted
emissions
problems in
power conversion
equipment.
Switching power
supplies are

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Controlling the most significant noise generators in electronic systems. In most design work, if the conducted emission problem is addressed, good layout and packaging will ensure that the conducted and radiated

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Controlling
electromagnetic
interference
(EM!)

Radiated
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requirements are
met. The EMI

process involves
three

components:

source, path,
and victim.

These elements
are easily
modeled on the
computer. The

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methods of modeling and analysis on the computer are the essence of this book. The EMI source is analyzed using the FFr and the results are applied to a computer model of the path and victim (test

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setup). The
resulting
currents are
measured and
compared to a
standard.

The 3rd edition
of Controlling
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Design has been
updated to
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latest changes
in the field.
New to this
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material on
aspects of
technical
advance,
specifically
long term energy
efficiency,
energy saving,
RF pollution
control, etc.

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This book
retains the step-
by-step approach
for

incorporating
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new design, from
the ground up.

It describes the
selection of
quieter IC
technologies,
their
implementation

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into a noise-free printed circuit layout, and the gathering of all these into low radiation packaging, including I/O filtering, connectors and cables considerations. All guidelines

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are supported by thorough and comprehensive calculated examples. Design engineers, EMC specialists and technicians will benefit from learning about the development of more efficient and economical

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Co-published
with the IEEE
Press, this book
is a practical,
hands-on guide
to EMC issues
for medical
device designers
and installers.
It addresses
electromagnetic

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Controlling and
covers the
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basics of EMC
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design, physics,
Design
and

installation,
minimizing
theory and
concentrating
upon the correct
way to ground
and shield.

Covering EMC
from the inside

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Controlling Radiated Emissions By Design
out, the book provides the basics of electronics, discusses and evaluates problems and common causes, and explores effective remedial techniques at three levels: circuit, box,

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and Controlling
interconnect. It
contains
appendices that
provide
important
reference
material such as
constants and
conversion
factors.

Proper design of
printed circuit

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boards can make the difference between a product passing emissions requirements during the first cycle or not. Traditional EMC design practices have been simply rule-based, that is, a list of rules-of-thumb

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are presented to the board designers to implement. When a particular rule-of-thumb is difficult to implement, it is often ignored. After the product is built, it will often fail emission

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requirements and
various time
consuming and
costly add-ons
are then
required. Proper
EMC design does
not require
advanced degrees
from
universities,
nor does it
require
strenuous

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mathematics. It does require a basic understanding of the underlying principles of the potential causes of EMC emissions. With this basic understanding, circuit board designers can make trade-off

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decisions during
the design phase
to ensure
optimum EMC
design.

Consideration of
these potential
sources will
allow the design
to pass the
emissions
requirements the
first time in
the test

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laboratory. A number of other books have been published on EMC. Most are general books on EMC and do not focus on printed circuit board design. This book is intended to help EMC engineers and design engineers.

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Understanding the potential 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

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concepts in this
book directly to
their designs in
the real-world.

Design

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standardization,

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The packaging of
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devices and
systems
represents a
significant
challenge for
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considerations,
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and EMI/RFI
issues all come
into play.

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considerations
at both the
device and the

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systems level

are also
necessary. The
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and
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founder of the
EMC design risk
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teaching and
researching the
topic

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various aspects

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- Can be manufactured, tested, repaired, and serviced.
- May be sold and used worldwide.
- Can

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be adapted or
enhanced to meet
new and changing
requirements.

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The Keep It
Simple (KISS)
philosophy is
the primary
focus of this
book. It is
written in very
simple language
with minimal

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math, as a compilation of helpful EMI troubleshooting hints. Its light-hearted tone is at odds with the extreme seriousness of most engineering reference works that become boring after a few pages. This

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text tells
engineers what
to do and how to
do it. Only a
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of math,
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a basic
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necessary to
understand the
concepts and
circuits

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resolve EMI
issues are
discussed to
help generate
unique ideas and
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developing
additional
diagnostic tools
and measurement
procedures. An
appendix on how
to build probes

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is included. It can be a fun activity, even humorous at times with bizarre techniques (i.e., the sticky finger probe).

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