

Read Free Study Guide For
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Engineering

*Study Guide For
Electromagnetic
Compatibility
Engineering*

A Landmark text thoroughly

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***updated, including a new CD
As digital devices continue to
be produced at increasingly
lowercosts and with higher
speeds, the need for
effectiveelectromagnetic
compatibility (EMC) design***

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practices has become more critical than ever to avoid unnecessary costs in bringing products into compliance with governmental regulations. The Second Edition of this

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***landmark text has been
thoroughly updated
and revised to reflect these
major developments that
affect both academia and the
electronics industry. Readers
familiar with the First Edition***

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***will find much new material,
including: * Latest U.S. and
international regulatory
requirements * PSpice used
throughout the textbook to
simulate EMC
analysis solutions * Methods of***

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designing for Signal Integrity *
Fortran programs for the
simulation of Crosstalk
supplied on aCD * OrCAD(r)
PSPice(r) Release 10.0 and
Version 8 Demo
Edition software supplied on a

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***CD * The final chapter on
System Design for EMC
completely rewritten * The
chapter on Crosstalk rewritten
to simplify the mathematics
Detailed, worked-out examples
are now included throughout***

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the text. In addition, review exercises are now included following the discussion of each important topic to help readers assess their grasp of the material. Several appendices are new to this

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***edition including Phasor
Analysis of Electric Circuits,
The Electromagnetic Field
Equations and Waves,
Computer Codes for
Calculating the Per-Unit-Length
Parameters and Crosstalk of***

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***Multiconductor Transmission
Lines, and a SPICE (PSPICE)
tutorial. Now thoroughly
updated, the Second Edition of
Introduction
to Electromagnetic
Compatibility remains the***

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***textbook of choice
for university/college EMC
courses as well as a reference
for EMC design engineers. An
Instructor's Manual presenting
detailed solutions to all
the problems in the book is***

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***available from the Wiley
editorialdepartment.***

***There is currently no single
book that covers the
mathematics, circuits, and
electromagnetics
backgrounds needed for the***

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study of electromagnetic compatibility (EMC). This book aims to redress the balance by focusing on EMC and providing the background in all three disciplines. This background is necessary for

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many EMC practitioners who have been out of study for some time and who are attempting to follow and confidently utilize more advanced EMC texts. The book is split into three parts: Part 1

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is the refresher course in the underlying mathematics; Part 2 is the foundational chapters in electrical circuit theory; Part 3 is the heart of the book: electric and magnetic fields, waves, transmission lines and

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antennas. Each part of the book provides an independent area of study, yet each is the logical step to the next area, providing a comprehensive course through each topic. Practical EMC applications at

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the end of each chapter illustrate the applicability of the chapter topics. The Appendix reviews the fundamentals of EMC testing and measurements. This introductory text provides

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coverage of both static and dynamic fields. There are references to computer visualisation (Mathcad) and computation throughout the text, and there are Mathcad electronic books available free

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on the Internet to help students visualise electromagnetic fields. Important equations are highlighted in the text, and there are examples and problems throughout, with

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answers to the problems at the back of the book.

Scientists largely attribute the recent deterioration of the electromagnetic environment to power electronics. This realization has spurred the

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study of methodical approaches to electromagnetic compatibility designs as explored in this text. The book addresses major challenges, such as handling numerous

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parameters vital to predicting electro magnetic effects and achieving compliance with line-harmonics norms, while proposing potential solutions.
Engineering Electromagnetic Compatibility

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2019***

***Applied Electromagnetics and
Electromagnetic Compatibility
Electromagnetic Compatibility***

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***(EMC) Design and Test Case
Analysis***

***Principles and Techniques of
Electromagnetic Compatibility***

*? The pulsed EM characterization of
planar circuits is of high practical
importance in many areas of science*

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*and engineering such as
electromagnetic compatibility and
antenna design. This book is hence
devoted to the mathematical
formulation and numerical analysis
of arbitrarily-shaped parallel-plane
structures concerning their pulsed EM*

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propagation, radiation and scattering behavior. The key emphasis is on the time-domain reciprocity-based integral-equation formulations and their efficient numerical solution.

A practical introduction to techniques for the design of electronic products

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*from the Electromagnetic
compatibility (EMC) perspective
Introduces techniques for the design
of electronic products from the EMC
aspects Covers normalized EMC
requirements and design principles to
assure product compatibility*

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Describes the main topics for the control of electromagnetic interferences and recommends design improvements to meet international standards requirements (FCC, EU EMC directive, Radio acts, etc.) Well organized in a logical sequence which

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*starts from basic knowledge and continues through the various aspects required for compliance with EMC requirements Includes practical examples and case studies to illustrate design features and troubleshooting
Author is the founder of the EMC*

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*design risk evaluation approach and
this book presents many years'
experience in teaching and
researching the topic*

*The book reviews developments in the
following fields: electromagnetic
compatibility; EMC standards; EMC*

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*testing; radiated emission testing;
antennas; radiated susceptibility
testing; measurement equipment;
electromagnetic transient testing; and
uncertainty analysis*

Shelving Guide: Electrical

Engineering Revised, updated, and

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*expanded, Electromagnetic
Compatibility: Methods, Analysis,
Circuits, and Measurement, Third
Edition provides comprehensive
practical coverage of the design,
problem solving, and testing of
electromagnetic compatibility (EMC)*

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in electrical and electronic equipment and systems. This new edition provides novel information on theory, applications, evaluations, electromagnetic computational programs, and prediction techniques available. With sixty-nine schematics

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*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.

*Electromagnetic Compatibility in
Power Electronics*

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*A Circuit to System Handbook
Electromagnetic Compatibility
Management Guide for Platforms,
Systems and Equipment
Guide to the Use of ITU-T
Publications Produced by Study
Group 5 Aimed at Achieving*

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*Electromagnetic Compatibility and
Safety*

*A Handbook for EMC Testing and
Measurement*

**Praise for Noise
Reduction Techniques IN
electronic systems "Henry**

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Ott has literally 'written the book' on the subject of EMC. . . . He not only knows the subject, but has the rare ability to communicate that knowledge to others."

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—EE Times

**Electromagnetic
Compatibility
Engineering is a
completely revised,
expanded, and updated
version of Henry Ott's**

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**popular book Noise
Reduction Techniques in
Electronic Systems. It
reflects the most recent
developments in the field
of electromagnetic
compatibility (EMC) and**

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**noise reduction and their
practical applications to
the design of analog and
digital circuits in
computer, home
entertainment, medical,
telecom, industrial**

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**process control, and
automotive equipment, as
well as military and
aerospace systems. While
maintaining and updating
the core
information—such as**

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**cabling, grounding,
filtering, shielding,
digital circuit grounding
and layout, and ESD—that
made the previous book
such a wide success, this
new book includes**

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**additional coverage of:
Equipment/systems
grounding Switching
power supplies and
variable-speed motor
drives Digital circuit
power distribution and**

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**decoupling PCB layout
and stack-up Mixed-
signal PCB layout RF and
transient immunity Power
line disturbances
Precompliance EMC
measurements New**

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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 to analog and**

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digital circuits operating from below audio frequencies to those in the GHz range.

Throughout the book, an emphasis is placed on cost-effective EMC

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**designs, with the amount
and complexity of
mathematics kept to the
strictest minimum.**

**Complemented with over
250 problems with
answers, Electromagnetic**

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**Compatibility
Engineering equips
readers with the
knowledge needed to
design electronic
equipment that is
compatible with the**

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**electromagnetic
environment and
compliant with national
and international EMC
regulations. It is an
essential resource for
practicing engineers who**

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face EMC and regulatory compliance issues and an ideal textbook for EE courses at the advanced undergraduate and graduate levels.

This comprehensive study

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**guide thoroughly covers
the CompTIA RFID+
exam, the only
certification offered for
radio frequency
identification (RFID), the
technology that is rapidly**

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gaining popularity and is expected to completely replace bar codes. Your study will focus on interrogation zone basics, testing and troubleshooting,

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standards and regulations, tag knowledge, design selection, installation, site analysis, RF physics, and RFID peripherals. The accompanying CD-

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ROM provides two bonus exams, a detailed glossary of terms, and a searchable PDF of the book.

In the aerospace industry, avoiding operating issues,

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especially in regard to space missions and satellite structures, is crucial. The vast majority of these issues can be traced to disturbances in the electromagnetic fields

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**used. Electromagnetic
Compatibility for Space
Systems Design is a
critical scholarly resource
that examines the
applications of
electromagnetic**

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**compatibility and
electromagnetic
interference in the space
industry. Featuring
coverage on a wide range
of topics, such as
magnetometers,**

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**electromagnetic
environmental effects,
and electromagnetic
shielding, this book is
geared toward managers,
engineers, and
researchers seeking**

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**current research on the
applications of
electromagnetic
technologies in the
aerospace field.**

**This new edition of the
Study Guide for the**

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iNARTE EMC

**Certification Exam for
Engineers & Technicians
includes 200 updated
printed sample problems
with answers and
comments, access to an**

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**additional 60 video
sample problems with
complete solutions, and a
collection of reference
material, including
acronyms, standards
information, important**

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**equations and theory.
Sample problems and
reference materials are
organized by topic to help
you quickly find the
information you need.
The iNARTE EMC exam is**

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**open-book, and this
printed study guide is
designed to be used as a
reference during the
exam.**

**Principles,
Measurements,**

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**Technologies, and
Computer Models
The Contour Integral
Method
Electromagnetic
Compatibility
Electromagnetic**

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Compatibility Handbook Grounds for Grounding

Covering recent developments, this book aims to give a sound basic knowledge in the field of electromagnetic compatibility (EMC) in relation to electronic circuits,

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equipment and installations. Illustrated with case-studies and examples, this guide includes guides, shortcuts and tips.

Applied Electromagnetics and Electromagnetic Compatibility deals with Radio Frequency Interference (RFI), which is the reception of

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undesired radio signals originating from digital electronics and electronic equipment. With today's rapid development of radio communication, these undesired signals as well as signals due to natural phenomena such as lightning, sparking, and others are becoming increasingly important in the

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general area of Electro Magnetic Compatibility (EMC). EMC can be defined as the capability of some electronic equipment or system to be operated at desired levels of performance in a given electromagnetic environment without generating EM emissions unacceptable to other systems

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operating in the vicinity.

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(EMC/EMI) Certification Exam - 2020**
**Since the concept was first proposed at
the end of the 20th Century,
metamaterials have been the subject of
much research and discussion**

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throughout the wave community. More than 10 years later, the number of related published articles is increasing significantly. On the one hand, this success can be attributed to dreams of new physical objects which are the consequences of the singular properties of metamaterials.

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Among them, we can consider the examples of perfect lensing and invisibility cloaking. On otherhand, metamaterials also provide new tools for the design of well-known wave functions such as antennas for electromagnetic waves. The goal of this book is to propose an overview of the

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concept of metamaterials as a perspective on a new practical tool for wave study and engineering. This includes both the electromagnetic spectrum, from microwave to optics, and the field of acoustic waves. Contents 1. Overview of Microwave and Optical Metamaterial Technologies, Didier

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Lippens. 2. MetaLines: Transmission Line Approach for the Design of Metamaterial Devices, Bruno Sauviac. 3. Metamaterials for Non-Radiative Microwave Functions and Antennas, Divitha Seetharamdoo and Bruno Sauviac. 4. Toward New Prospects for Electromagnetic

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Compatibility, DivithaSeetharamdoo. 5. Dissipative Loss in Resonant Metamaterials, Philippe Tassin, Thomas Koschny, and Costas M. Soukoulis. 6. Transformation Optics and Antennas, André de Lustrac, ShahNawaz Burokur and Paul-Henri Tichit. 7. Metamaterials for Control of Surface Electromagnetic

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**and Liquid Waves, Sébastien Guenneau,
Mohamed Farhat, Muamer
Kadic, Stefan Enoch and Romain
Quidant. 8. Classical Analog of
Electromagnetically Induced
Transparency, Philippe Tassin, Thomas
Koschny and Costas M. Soukoulis.
EMC Question of the Week**

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**Electromagnetic Compatibility for
Space Systems Design**

**Product catalog - China National
Standard: GB; GB/T; GBT**

with Practical Applications

**Automotive Electromagnetic
Compatibility (EMC)**

As the number of

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electrical devices in use continues to grow, so do the challenges of ensuring the electromagnetic compatibility (EMC) of products and systems. Fortunately, engineers

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have at their disposal an array of approximations, models, and rules-of-thumb to help them meet those challenges. Unfortunately, the number of these tools and guidelines is

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overwhelming, and worse still is the thought of investigating their origins and confirming their results. The Electromagnetic Compatibility Handbook is

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an unprecedented compilation of the many approximations, guidelines, models, and rules-of-thumb used in EMC analyses, complete with their sources and their

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limitations. The book presents these in an efficient question-and-answer format and incorporates an extremely comprehensive set of tables and figures. The

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author has either derived from basic principles or obtained and verified from their original sources all of the expressions in the tables. Mathcad was used to generate most of the

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plots and solve many of the equations, and the author includes the Mathcad programs for many of these so users can clearly see the variable assignments, assumptions,

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and equations. Designed to be of long-lasting value to engineers, researchers, and students, the Electromagnetic Compatibility Handbook is ideal both for quick

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reference and as a textbook for upper-level and graduate electrical engineering courses. Substation Automation Systems: Design and Implementation aims to

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close the gap created by fast changing technologies impacting on a series of legacy principles related to how substation secondary systems are conceived and implemented.

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It is intended to help those who have to define and implement SAS, whilst also conforming to the current industry best practice standards. Key features: Project-oriented

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approach to all practical aspects of SAS design and project development.

Uniquely focusses on the rapidly changing control aspect of substation design, using novel

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communication technologies and IEDs (Intelligent Electronic Devices).

Covers the complete chain of SAS components and related equipment instead of purely concentrating on

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intelligent electronic devices and communication networks. Discusses control and monitoring facilities for auxiliary power systems. Contributes significantly to the

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understanding of the standard IEC 61850, which is viewed as a “black box” for a significant number of professionals around the world. Explains standard IEC 61850 –

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Communication networks and systems for power utility automation – to support all new systems networked to perform control, monitoring, automation, metering and protection

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functions. Written for practical application, this book is a valuable resource for professionals operating within different SAS project stages including the:

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specification process;
contracting process;
design and engineering
process; integration
process; testing process
and the operation and
maintenance process.

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This handy pocket reference offers a concise, constant-use guide to addressing the most common reasons for compliance failure. For working engineers or

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technicians, it's an essential guide to thwarting electromagnetic interference.

Anyone who has operated, serviced, or designed an automobile or truck in the

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last few years has most certainly noticed that the age of electronics in our vehicles is here!

Electronic components and systems are used for everything from the

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traditional entertainment system to the latest in "drive by wire", to two-way communication and navigation. The interesting fact is that the automotive industry

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has been based upon mechanical and materials engineering for much of its history without many of the techniques of electrical and electronic engineering. The emissions

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controls requirements of the 1970's are generally recognized as the time when electronics started to make their way into the previous mechanically based systems and

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functions. While this revolution was going on, the electronics industry developed issues and concepts that were addressed to allow interoperation of the

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systems in the presence of each other and with the external environment. This included the study of electromagnetic compatibility, as systems and components started to

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

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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 at a

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

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Principles and
Applications, Second
Edition, Revised and
Expanded
Introduction to
Electromagnetic Fields

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Scientific and Technical
Aerospace Reports

A Landmark text
thoroughly updated,
including a new CD As
digital devices continue

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to be produced at increasingly lower costs and with higher speeds, the need for effective electromagnetic compatibility (EMC) design practices has

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become more critical than ever to avoid unnecessary costs in bringing products into compliance with governmental regulations. The Second

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Edition of this landmark text has been thoroughly updated and revised to reflect these major developments that affect both academia and the electronics industry.

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Readers familiar with the First Edition will find much new material, including:

- * Latest U.S. and international regulatory requirements
- * PSpice used throughout

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the textbook to simulate
EMC analysis solutions *
Methods of designing for
Signal Integrity *
Fortran programs for the
simulation of Crosstalk
supplied on a CD *

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OrCAD(r) PSpice(r)
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8 Demo Edition software
supplied on a CD * The
final chapter on System
Design for EMC
completely rewritten *

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The chapter on Crosstalk
rewritten to simplify
the mathematics
Detailed, worked-out
examples are now
included throughout the
text. In addition,

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review exercises are now included following the discussion of each important topic to help readers assess their grasp of the material. Several appendices are

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new to this edition
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Analysis of Electric
Circuits, The
Electromagnetic Field
Equations and Waves,
Computer Codes for

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Calculating the Per-Unit-
Length Parameters and
Crosstalk of
Multiconductor
Transmission Lines, and
a SPICE (PSPICE)
tutorial. Now thoroughly

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updated, the Second Edition of Introduction to Electromagnetic Compatibility remains the textbook of choice for university/college EMC courses as well as a

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reference for EMC design engineers. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley

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editorial department.
Unlike other
publications, this new
book offers a different
approach to the study of
electromagnetic
compatibility (EMC). It

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emphasizes the understanding of relevant electromagnetic interactions in increasingly complex systems. Mathematical tools are introduced

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when pursuing the physical picture unaided becomes counterproductive. In order to handle complexity, numerical tools are developed and

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the basis and capabilities of these tools are presented. Part I of the book covers underlying concepts and techniques. This includes

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discussions on
electromagnetic fields,
electrical circuit
components, and
electrical signals and
circuits. The second
part deals with general

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EMC concepts and techniques and will be useful for predicting the EMC behavior of systems. More practical techniques used to control electromagnetic

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interference and the design of EMC into products are presented in Part III. The main EMC standards and test techniques are described in the final part of the

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book. Chapters are designed to allow readers to study the entire book at a pace which reflects their own background and interests. The book

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appeals to both EMC applications-oriented and analysis-oriented readers. This text provides useful source material for a serious study of EMC, including

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references to more
advanced work.

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to prepare for the
challenging CISSP exam
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information on critical
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Security Security
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Security Management
Practices
Telecommunications,
Network & Internet

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Standards - Category:
GB; GB/T, GBT.

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Studies in
Transportation

Key EMC Facts, Equations

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challenging CISSP exam from

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(ISC) 2. This third edition was developed to meet the exacting requirements of today's security certification candidates, and has been thoroughly updated to cover recent technological advances

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topics Practical examples and
insights drawn from real-world
experience Expanded coverage
of key topics such as
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