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This introductory text provides 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 on the Internet to help students visualise electromagnetic fields. Important equations are highlighted in the text, and there are examples and problems throughout, with answers to the problems at the back of the book.



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This book covers the basic electromagnetic principles and laws from the standpoint of engineering applications, focusing on time-varying fields. Numerous applications of the principles and law are given for engineering applications that are primarily drawn from digital system design and electromagnetic interference (Electromagnetic Compatibility or EMC). Clock speeds of digital systems are increasingly in the GHz range as are frequencies used in modern analog communication systems. This increasing frequency content

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demands that more electrical engineers understand these fundamental electromagnetic principles and laws in order to design high speed and high frequency systems that will successfully operate.

A Landmark text thoroughly updated, including a new CD As digital devices continue to be produced at increasingly lower costs and with higher speeds, the need for effective electromagnetic compatibility (EMC) design practices has become more critical than ever to avoid unnecessary costs in bringing products into compliance with governmental

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Paul Solutions. The Second Edition of this 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 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 designing for Signal Integrity
- \* Fortran programs for the simulation of Crosstalk supplied on a CD
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10.0 and Version 8 Demo

Edition software supplied on a 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 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 edition including Phasor Analysis of Electric Circuits, The Electromagnetic Field Equations and Waves,

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Computer Codes for  
Calculating the Per-Unit-  
Length Parameters and  
Crosstalk of Multiconductor  
Transmission Lines, and a  
SPICE (PSPICE) tutorial. Now  
thoroughly updated, the  
Second Edition of  
Introduction to  
Electromagnetic  
Compatibility remains the  
textbook of choice for  
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courses as well as a  
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Manual presenting detailed  
solutions to all the  
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The only resource devoted  
Solely to Inductance  
Inductance is an  
unprecedented text,  
thoroughly discussing "loop"  
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Paul provides the knowledge  
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understand and  
calculate inductance. Unlike  
other texts, Inductance

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Paul Solutions provides all the details about the derivations of the inductances of various inductors, as well as: Fills the need for practical knowledge of partial inductance, which is essential to the prediction of power rail collapse and ground bounce problems in high-speed digital systems Provides a needed refresher on the topics of magnetic fields Addresses a missing link: the calculation of the values of the various physical constructions of inductors—both intentional inductors and unintentional inductors—from basic electromagnetic principles and laws Features

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the detailed derivation of the loop and partial inductances of numerous configurations of current-carrying conductors. With the present and increasing emphasis on high-speed digital systems and high-frequency analog systems, it is imperative that system designers develop an intimate understanding of the concepts and methods in this book. Inductance is a much-needed textbook designed for senior and graduate-level engineering students, as well as a hands-on guide for working engineers and professionals engaged in the design of high-speed digital and high-frequency



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Market\_Desc: This book will be used by students in EMC courses which are offered in most EE departments, By design engineers in the electronics industry, standards setting agencies both in industry and government

Special Features:

- A thorough revision and updating of the very successful 1992 edition.
- The author has designed and introduced the first EMC courses offered in universities. These courses are now offered in all EE departments.
- This edition

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Paul Solutions of worked examples and problems. The book will be accompanied by a web site offering additional aides for students and instructors. EMC standards are set by the government and must be followed for all electronic devices sold in the United States and worldwide About The Book: This is the second edition of a textbook that was originally published in 1992 and is intended for a university/college course in electromagnetic compatibility (EMC). The text builds on those basic skills, principles and concepts and applies them to the design of modern

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electronic systems so that these systems will operate compatibly with other electronic systems and also comply with various governmental regulations on radiated and conducted electromagnetic emissions. In essence, EMC deals with interference and the prevention of it through the design of electronic systems. This second edition has been substantially rewritten and revised to reflect the developments in the field of EMC. Chapters have been repositioned and their content revised.

A Landmark text thoroughly updated, including a new CD

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As digital devices continue to be produced at increasingly lower costs and with higher speeds, the need for effective electromagnetic compatibility (EMC) design practices has become more critical than ever to avoid unnecessary costs in bringing products into compliance with governmental regulations. The Second Edition of this 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 will find much new material,

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including: \* Latest U.S. and international regulatory requirements \* PSpice used throughout the textbook to simulate EMC analysis solutions \* Methods of designing for Signal Integrity \* Fortran programs for the simulation of Crosstalk supplied on a CD \* OrCAD(r) PSpice(r) Release 10.0 and Version 8 Demo Edition software supplied on a 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 the text. In addition, review

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**Paul Solutions** 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 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 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 available  
from the Wiley  
editorial department.

This "know-how" book gives  
readers a concise  
understanding of the  
fundamentals of EMC, from  
basic mathematical and  
physical concepts through  
present, computer-age  
methods used in analysis,  
design, and tests. With  
contributions from leading  
experts in their fields, the

# Get Free Electromagnetics For Engineers Clayton R

Paul provides a

comprehensive overview.

Fortified with information on how to solve potential electromagnetic interference (EMI) problems that may arise in electronic design, practitioners will be betterable to grasp the latest techniques, trends, and applications of this increasingly important engineering discipline.

Handbook of Electromagnetic Compatibility contains extensive treatment of EMC applications to radio and wireless communications, fiber optics communications, and plasma effects. Coverage of EMC-related issues includes lightning,



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electromagnetic pulse,  
biological effects, and  
electrostatic discharge.  
Practical examples are used  
to illustrate the material,  
and all information is  
presented in an accessible  
and organized format. The  
text is intended primarily  
for those practicing  
engineers who need a good  
foundation in EMC, but it  
will also interest faculty  
and students, since a good  
portion of the material  
covered can find use in the  
classroom or as a  
springboard for further  
research. The chapters are  
written by experts in the  
field Details the  
fundamental principles, then

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moves to more advanced  
topics Covers computational  
electromagnetics applied to  
EMC problems Presents an  
extensive treatment of EMC  
applications to: Radio and  
wireless communications,  
Fiber optic communications,  
Plasma effects, Wired  
circuits, Microchips,  
Includes practical examples,  
Fiber optic, Communications,  
Plasma effects, Wired  
circuits, Microchips,  
Includes practical examples

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

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subject, but has the rare ability to communicate that knowledge to others." —EE Times  
Electromagnetic Compatibility Engineering is a completely revised, 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 of electromagnetic compatibility (EMC) and noise reduction; and their practical applications to the design of analog and digital circuits in computer, home entertainment, medical, telecom, industrial process control, and automotive

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equipment, as well as military and aerospace systems. While maintaining and updating 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 new book includes additional coverage of:

Equipment/systems grounding  
Switching power supplies and variable-speed motor drives  
Digital circuit power distribution and decoupling  
PCB layout and stack-up  
Mixed-signal PCB layout RF and transient immunity  
Power line disturbances  
Precompliance EMC

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Paul Solutions New appendices on dipole antennae, the theory of partial inductance, and the ten most common EMC problems The concepts presented are applicable to analog and digital 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 complexity of mathematics kept to the strictest minimum. Complemented with over 250 problems with answers, Electromagnetic Compatibility Engineering equips readers with the knowledge needed to design

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electronic equipment that is compatible with the electromagnetic environment and compliant with national and international EMC regulations. It is an essential resource for practicing engineers who face EMC and regulatory compliance issues and an ideal textbook for EE courses at the advanced undergraduate and graduate levels.

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