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visualisation (Mathcad) and computation throughout the text,

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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.

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 regulations. The Second Edition of this landmark text has been thoroughly updated and revised to reflect these major

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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
- * 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 exercises are now included following the discussion of each important topic to help readers assess their grasp of the material.

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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 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.

Market_Desc: This book will be used by students in EMC courses which are offered in most EE departments, By design

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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 has a wealth 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

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on those basic skills, principles and concepts and applies them to the design of modern 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.

This book covers the basic electromagnetic principles and laws from the standpoint of engineering applications, focusing on time-varying fields. Numerous applications of the

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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 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.

Anyone who has operated, serviced, or designed an

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automobile or truck in the 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 traditional entertainment system to the latest in “drive 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 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 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 concepts that were addressed to allow

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

This updated and expanded version of the very successful first edition offers new chapters on controlling the emission

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from electronic systems, especially digital systems, and on low-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 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.

A comprehensive resource that explores electromagnetic compatibility (EMC) for aerospace systems Handbook of Aerospace Electromagnetic Compatibility is a groundbreaking book on EMC for aerospace systems that addresses both

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aircraft and space vehicles. With contributions from an international panel of aerospace EMC experts, this important text deals with the testing of spacecraft components and subsystems, analysis of crosstalk and field coupling, aircraft communication systems, and much more. The text also includes information on lightning effects and testing, as well as guidance on design principles and techniques for lightning protection. The book offers an introduction to E3 models and techniques in aerospace systems and explores EMP effects on and technology for aerospace systems. Filled with the most up-to-date information, illustrative examples, descriptive figures, and helpful scenarios, Handbook of Aerospace Electromagnetic Compatibility is designed to be a practical information source. This vital guide to electromagnetic

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compatibility: • Provides information on a range of topics including grounding, coupling, test procedures, standards, and requirements • Offers discussions on standards for aerospace applications • Addresses aerospace EMC through the use of testing and theoretical approaches Written for EMC engineers and practitioners, Handbook of Aerospace Electromagnetic Compatibility is a critical text for understanding EMC for aerospace systems.

This well-known undergraduate electrodynamics textbook is now available in a more affordable printing from Cambridge University Press. The Fourth Edition provides a rigorous, yet clear and accessible treatment of the fundamentals of electromagnetic theory and offers a sound platform for

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explorations of related applications (AC circuits, antennas, transmission lines, plasmas, optics and more). Written keeping in mind the conceptual hurdles typically faced by undergraduate students, this textbook illustrates the theoretical steps with well-chosen examples and careful illustrations. It balances text and equations, allowing the physics to shine through without compromising the rigour of the math, and includes numerous problems, varying from straightforward to elaborate, so that students can be assigned some problems to build their confidence and others to stretch their minds. A Solutions Manual is available to instructors teaching from the book; access can be requested from the resources section at www.cambridge.org/electrodynamics.

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