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Introduction to electromagnetic compatibility by Clayton R. Paul, unknown edition, 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 ...

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What are the best books about EMC?

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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 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. 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.

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 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.

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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The essential textbook for electrical engineering students and professionals—now in a valuable new edition The increasing use of high-speed digital technology requires that all electrical engineers have a working knowledge of transmission lines. However, because of the introduction of computer engineering courses into already-crowded four-year undergraduate programs, the transmission line courses in many electrical engineering programs have been relegated to a senior technical elective, if offered at all. Now, Analysis of Multiconductor Transmission Lines, Second Edition has been significantly updated and reorganized to fill the need for a structured course on transmission lines in a senior undergraduate- or graduate-level electrical engineering program. In this new edition, each broad analysis topic, e.g., per-unit-length parameters, frequency-domain analysis, time-domain analysis, and incident field excitation, now has a chapter concerning two-conductor lines followed immediately by a chapter on MTLs for that topic. This enables instructors to emphasize two-conductor lines or MTLs or both. In addition to the reorganization of the material, this Second Edition now contains important advancements in analysis methods that have developed since the previous edition, such as methods for achieving signal integrity (SI) in high-speed digital interconnects, the finite-difference, time-domain (FDTD) solution methods, and the time-domain to frequency-domain transformation (TDFD) method. Furthermore, the content of Chapters 8 and 9 on digital signal propagation and signal integrity application has been considerably expanded upon to reflect all of the vital information current and future designers of high-speed digital systems need to know. Complete with an accompanying FTP site, appendices with descriptions of numerous FORTRAN computer codes that implement all the techniques in the text, and a brief but thorough tutorial on the SPICE/PSPICE circuit analysis program, Analysis of Multiconductor Transmission Lines, Second Edition is an indispensable textbook for students and a valuable resource for industry professionals.

An interdisciplinary guide to enabling technologies for 3D ICs and 5G mobility, covering packaging, design to product life and reliability assessments Features an interdisciplinary approach to the enabling technologies and hardware for 3D ICs and 5G mobility Presents statistical treatments and examples with tools that are easily accessible, such as Microsoft 's Excel and Minitab Fundamental design topics such as electromagnetic design for logic and RF/passives centric circuits are explained in detail Provides chapter-wise review questions and powerpoint slides as teaching tools

This comprehensive new resource provides methods and tools for defining EMC requirements and techniques for performing predictions and calculations to achieve electromagnetic compatibility. This book demonstrates how radar, communications, and navigation systems can function without interference. EMC requirements for the device, platform, site, and arena level are discussed and EMC detection analysis is utilized to predict EMC problems. The book explores the interference between receiving and transmitting electronic systems and examines intersystem and intrasystem EMC. Techniques and mathematical framework for performing EMC prediction and calculations to solve electromagnetic compatibility problems are highlighted. Moreover, this book presents classic methods and several original EMC calculation procedures including new approaches in mathematical development of interference probability calculations. Readers learn how to anticipate problems and then define EMC solutions.

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-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.

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