

## Emc Design Guide For St Microcontrollers Emcfastpass

**This book explains practical aspects of Electromagnetic Compatibility testing and design without resorting to lengthy mathematical derivations. After reading the book, the designer can immediately incorporate measures like PCB design, filtering, shielding, grounding, cable routing at the design stage of the product development cycle, without worrying too much about theory. This will save both his money and efforts that would be otherwise be required if he tries to modify a frozen design.**

**For the sake of convenience, the book has been divided into two parts. Part I has six chapters dealing with EMC fundamentals, EMC standards and EMC test methodologies. Part II of the book has five chapters dedicated to EMC design methodologies namely filtering, shielding, PCB design, grounding & bonding and cable routing..**

**And last but not the least, the book ends with an introduction to CE marking - a mandatory compliance mark placed on products intended for export to the European Union.**

**Complete PCB Design Using OrCad Capture and Layout provides instruction on how to use the OrCAD design suite to design and manufacture printed circuit boards. The book is written for both students and practicing engineers who need a quick tutorial on how to use the software and who need in-depth knowledge of the capabilities and limitations of the software package. There are two goals the book aims to reach: The primary goal is to show the reader how to design a PCB using OrCAD Capture and OrCAD Layout. Capture is used to build the schematic diagram of the circuit, and Layout is used to design the circuit board so that it can be manufactured. The secondary goal is to show the reader how to add PSpice simulation capabilities to the design, and how to develop custom schematic parts, footprints and PSpice models. Often times separate designs are produced for documentation, simulation and board fabrication. This book shows how to perform all three functions from the same schematic design. This approach saves time and money and ensures continuity between the design and the manufactured product. Information is presented in the exact order a circuit and PCB are designed Straightforward, realistic examples present the how and why the designs work, providing a comprehensive toolset for understanding the OrCAD software Introduction to the IPC, JEDEC, and IEEE standards relating to PCB design Full-color interior and extensive illustrations allow readers to learn features of the product in the most realistic manner possible With growing consumer demand for portability and miniaturization in electronics, design engineers must concentrate on many additional aspects in their core design. The plethora of components that must be considered requires that engineers have a concise understanding of each aspect of the design process in order to prevent bug-laden prototypes. Electronic Circuit Design allows engineers to understand the total design process and develop prototypes which require little to no debugging before release. It providesstep-by-step instruction featuring modern components, such as analog and mixed signal blocks, in each chapter. The book details every aspect of the design process from conceptualization and specification to final implementation and release. The text also demonstrates how to utilize device data sheet information and associated application notes to design an electronic system. The hybrid nature of electronic system design poses a great challenge to engineers. This book equips electronics designers with the practical knowledge and tools needed to develop problem free prototypes that are ready for release.**

**This book systematically explains the fundamentals of system-level electromagnetic compatibility and introduces the basic concept of system-level electromagnetic compatibility quantification design. The topics covered include the critical technologies in the top-down quantification design of electromagnetic compatibility, quantification design of system-level electromagnetic compatibility, evaluation methods and application examples, quality control and application examples of electromagnetic compatibility development process, and real-world engineering example analysis of electromagnetic compatibility. The book proposes a top-down system-level electromagnetic compatibility quantification design method and is the first book to describe in detail how to quantitatively evaluate and predict system-level electromagnetic compatibility performance. It includes abundant engineering examples and experimental data demonstrating the usage and results of the top-down quantification design methods of system-level electromagnetic compatibility.It enables readers to obtain a thorough understanding of the theory and methods of system-level electromagnetic compatibility quantification design as well as the methodologies for engineering practice.**

### Automotive Informatics and Communicative Systems: Principles in Vehicular Networks and Data Exchange

#### Principles in Vehicular Networks and Data Exchange

#### Propellant Actuated Devices

#### Electromagnetic Compatibility Management Guide for Platforms, Systems and Equipment

#### A Handbook for Designers

#### Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar

*This is a guide for the system designers and installers faced with the day-to-day issues of achieving EMC, and will be found valuable across a wide range of roles and sectors, including process control, manufacturing, medical, IT and building management. The EMC issues covered will also make this book essential reading for product manufacturers and suppliers - and highly relevant for managers as well as technical staff. The authors' approach is thoroughly practical - all areas of installation EMC are covered, with particular emphasis on cabling and earthing. Students on MSc and CFD programmes will also find in this book some valuable real-world antidotes to the academic treatises. The book is presented in two parts: the first is non-technical, and looks at the need for EMC in the context of systems and installations, with a chapter on the management aspects of EMC. The second part covers the technical aspects of EMC, looking at the various established methods which can be applied to ensure compatibility, and setting these in the context of the new responsibilities facing system builders. EMC for Systems and Installations is designed to complement Tim Williams' highly successful EMC for Product Designers. Practical guide to EMC design issues for those involved in systems design and installation Complementary title to Williams' bestselling EMC for Product Designers Unique guidance for installers on EMC topics*

*When designing an electronic circuit it is necessary to take a number of precautions to ensure that its EMC performance requirements can be met. Trying to fix the EMC performance once the circuit has been designed and built will be far more difficult and costly. There are a number of areas that can be addressed during the circuit design and PCB layout stage to ensure that the EMC performance is optimized: -PCB Circuit design -PCB Circuit partitioning-PCB Grounding-PCB Routing-EMC Filters-I/O Filtering and ShieldingBy adopting these precautions, the EMC performance of PCB layout can be greatly enhanced*

*Tim Williams has worked for a variety of companies as an electronic design engineer over the last 20 years. He has monitored the progress of the EMC Directive and its associated standards since it was first made public. He is a member of the Institution of Electrical Engineers and now runs his own consultancy, specialising in EMC design and training. \*Save money on consultancy bills with this book \*Practical guide to implementing EMC within the product design process \*The leading professional guide to the EMC Directive -100% up-to-date and reliable*

*Advances the understanding of management methods, information technology, and their joint application in business processes.*

*PCB Design Guide to Via and Trace Currents and Temperatures*

*SEE design guide and requirements for electrical deadfacing*

*WITH AN INTRODUCTION TO CE MARKING*

*Electromagnetic Compatibility in Medical Equipment*

*Design, Theory, and Layout Made Simple*

*EMC and the Printed Circuit Board*

*Grounding design and installation is critical for the safety and performance of any electrical or electronic system. Blending theory and practice, this is the first book to provide a thorough approach to grounding from circuit to system. It covers: grounding for safety aspects in facilities, lightning, and NEMP; grounding in printed circuit board, cable shields, and enclosure grounding; and applications in fixed and mobile facilities on land, at sea, and in air. It's an indispensable resource for electrical and electronic engineers concerned with the design of electronic circuits and systems.*

*The book reviews developments in the following fields: electromagnetic compatibility, EMC standards; EMC testing; radiated emission testing; antennas; radiated susceptibility testing; measurement equipment; electromagnetic transient testing; and uncertainty analysis*

*The Electromagnetic Compatibility has become an increasingly essential factor for placing a product on the global, world wide market. Fulfilling emission limits and immunity requirements as well as handling apparently complex cases of incompatibility demands a deeper understanding of the physical interrelations and of Maxwell's theory. Based on the authors' experiences, the textbook provides some help in solving such interferential cases. It contains many illustrative examples and more than 80 exercises with solutions.*

*In this new spanning more than a decade, The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering. Our knowledge continues to grow, and so does the Handbook. For the third edition, it has expanded into a set of six books carefully focused on a specialized area or field of study. Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar represents a concise yet definitive collection of key concepts, models, and equations in these areas, thoughtfully gathered for convenient access. Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar delves into the fields of electronics, integrated circuits, power electronics, optoelectronics, light waves, and radar, supplying all of the basic information required for a deep understanding of each area. It also devotes a section to electrical effects and devices and explores the emerging fields of micro lithography and power electronics. Articles include defining terms, references, and sources of further information. Encompassing the work of the world's foremost experts in their respective specialties, Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar features the latest developments, the broadest scope of coverage, and new material in emerging areas.*

*Grounds for Grounding*

*Basic EMC Technology Advancement for C3 Systems*

*Complete PCB Design Using OrCad Capture and Layout*

*Design Methods and Techniques for Digital Circuits*

*ELECTROMAGNETIC COMPATIBILITY, A PRACTICAL APPROACH TO*

*Complete PCB Design Using OrCAD Capture and PCB Editor*

*A very important part of printed circuit board (PCB) design involves sizing traces and vias to carry the required current. This exciting new book will explore how hot traces and vias should be and what board, circuit, design, and environmental parameters are the most important. PCB materials (copper and dielectrics) and the role they play in the heating and cooling of traces are covered. The IPC curves found in IPC 2152, the equations that fit those curves and computer simulations that fit those curves and equations are detailed. Sensitivity analyses that show what happens when environments are varied, including adjacent traces and planes, changing trace lengths, and thermal gradients are presented. Via temperatures and what determines them are explored, along with fusing issues and what happens when traces are overloaded. Voltage drops across traces and vias, the thermal effects going around right-angle corners, and frequency effects are covered. Readers learn how to measure the thermal conductivity of dielectrics and how to measure the resistivity of copper traces and why many prior attempts to do so have been doomed to failure. Industrial CT Scanning, and whether or not they might replace microsections for measuring trace parameters are also considered.*

*Summary: Laurel & Hardy work in a horn factory, where the noise drives Hardy to a nervous breakdown, and ends with them taking a sea voyage that doesn't quite go as planned.*

*This book provides instruction on how to use the OrCAD design suite to design and manufacture printed circuit boards. The primary goal is to show the reader how to design a PCB using OrCAD Capture and OrCAD Editor. Capture is used to build the schematic diagram of the circuit, and Editor is used to design the circuit board so that it can be manufactured. The book is written for both students and practicing engineers who need in-depth instruction on how to use the software, and who need background knowledge of the PCB design process. Beginning to end coverage of the printed circuit board design process. Information is presented in the exact order a circuit and PCB are designed Over 400 full color illustrations, including extensive use of screen shots from the software, allow readers to learn features of the product in the most realistic manner possible Straightforward, realistic examples present the how and why the designs work, providing a comprehensive toolset for understanding the OrCAD software Introduces and follows IEEE, IPC, and JEDEC industry standards for PCB design.*

*Unique chapter on Design for Manufacture covers padstack and footprint design, and component placement, for the design of manufacturable PCB's FREE CD containing the OrCAD demo version and design files*

*In 1993, the first edition of The Electrical Engineering Handbook set a new standard for breadth and depth of coverage in an engineering reference work. Now, this classic has been substantially revised and updated to include the latest information on all the important topics in electrical engineering today. Every electrical engineer should have an opportunity to expand his expertise with this definitive guide. In a single volume, this handbook provides a complete reference to answer the questions encountered by practicing engineers in industry, government, or academia. This well-organized book is divided into 12 major sections that encompass the entire field of electrical engineering, including circuits, signal processing, electronics, electrooptics, electrical effects and devices, and energy, and the emerging trends in the fields of communications, digital devices, computer engineering, systems, and biomedical engineering. A compendium of physical, chemical, material, and mathematical data complements this comprehensive resource. Every major topic is thoroughly covered and every important concept is defined, described, and illustrated. Conceptually challenging but carefully explained articles are equally valuable to the practicing engineer, researchers, and students. A distinguished advisory board and contributors including many of the leading authors, professors, and researchers in the field today assist noted author and professor Richard Dorf in offering complete coverage of this rapidly expanding field. No other single volume available today offers this combination of broad coverage and depth of exploration of the topics. The Electrical Engineering Handbook will be an invaluable resource for electrical engineers for years to come.*

*The Electrical Engineering Handbook, Second Edition*

*Robust Electronic Design Reference Book: no special title*

*A Practical Handbook for EMI Suppression*

*Linear Circuit Design Handbook*

*From Concept to Implementation*

*Electromagnetic Compatibility for Device Design and System Integration*

*In two editions spanning more than a decade, The Electrical Engineering Handbook stands as the definitive reference to the multidisciplinary field of electrical engineering. Our knowledge continues to grow, and so does the Handbook. For the third edition, it has grown into a set of six books carefully focused on specialized areas or fields of study. Each one represents a concise yet definitive collection of key concepts, models, and equations in its respective domain, thoughtfully gathered for convenient access. Combined, they constitute the most comprehensive, authoritative resource available. Circuits, Signals, and Speech and Image Processing presents all of the basic information related to electric circuits and components, analysis of circuits, the use of the Laplace transform, as well as signal, speech, and image processing using filters and algorithms. It also examines emerging areas such as text to speech synthesis, real-time processing, and embedded signal processing. Electronics, Power Electronics, Optoelectronics, Microwaves, Electromagnetics, and Radar delves into the fields of electronics, integrated circuits, power electronics, optoelectronics, light waves, and radar, supplying all of the basic information required for a deep understanding of each area. It also devotes a section to electrical effects and devices and explores the emerging fields of micro lithography and power electronics. Sensors, Nanoscience, Biomedical Engineering, and*

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*It provides all of the fundamental concepts needed for thorough, in-depth understanding of each area and devotes special attention to the emerging area of embedded systems. Encompassing the work of the world's foremost experts in their respective specialties, The Electrical Engineering Handbook, Third Edition remains the most convenient, reliable source of information available. This edition features the latest developments, the broadest scope of coverage, and new material on nanotechnologies, fuel cells, embedded systems, and biometrics. The engineering community has relied on the Handbook for more than twelve years, and it will continue to be a platform to launch the next wave of advancements. The Handbook's latest characteristics including implementation techniques: An in-depth study of transmission line theory A careful look at signal integrity, crosstalk, and termination*

*This book enables design engineers to be more effective in designing discrete and integrated circuits by helping them understand the role of analog devices in their circuit design. Analog elements are at the heart of many important functions in both discrete and integrated circuits, but from a design perspective the analog components are often the most difficult to understand. Examples include operational amplifiers, DA and AD converters and active filters. Effective circuit design requires a strong understanding of the operation of these analog devices and how they affect circuit design. Comprehensive coverage of analog circuit components for the practicing engineer Market-validated design information for all major types of linear circuits Includes practical advice on how to read up amp data sheets and how to choose off-the-shelf op amps Full chapter covering printed circuit board design issues*

*This accessible, new reference work shows how and why RF energy is created within a printed circuit board and the manner in which propagation occurs. With lucid explanations, this book enablesengineers to grasp both the fundamentals of EMC theory and signalintegrity and the mitigation process needed to prevent an EMCevent. Author Montrose also shows the relationship between time and/frequency domains to help you meet mandatory compliancerequirements placed on printed circuit boards. Using real-world examples the book features: Clear discussions, without complex mathematical analysis, of flux minimization concepts Extensive analysis of capacitor usage for variousapplications Detailed examination of components characteristics with various grounding methodologies, including implementation techniques \* An in-depth study of transmission line theory \* A careful look at signal integrity.*

*Over 8,300 pages... Just a SAMPLE of the CONTENTS: NONDESTRUCTIVE INSPECTION METHODS. Published by the Departments of the Army, Navy and Air Force on 1 March 2000 - 771 pages and June 2005 - 762 pages; Metallic Materials and Elements for Aerospace Vehicle Structures 1,733 pages Designing and Developing Maintainable Products and Systems - Revision A 719 pages Sampling Procedures and Tables for Inspection by Attributes 75 pages Nondestructive Testing Acceptance Criteria 88 pages Environmental Stress Screening Process for Electronic Equipment 49 pages Handbook for Reliability Test Methods, Plans, and Environments for Engineering, Development, Qualification, and Production - Revision A 411 pages Human Engineering - Revision F 219 pages Sampling Procedures and Tables for Life and Reliability Testing (Based on Exponential Distribution) 77 pages Test Method Standard: Electronic and Electrical Component Parts 191 pages Reliability Testing for Engineering Development, Qualification and Production - Revision D 47 pages Electroexplosive Subsystem Safety Requirements and Test Methods for Space Systems (150 pages, 8.64 MB) Reliability Prediction of Electronic Equipment- Notice F 205 pages Reliability Program for Systems and Equipment Development and Production - Revision B 88 pages Electronic Discharge Control Handbook for Protection of Electrical and Electronic Parts, Assemblies and Equipment (Excluding Electrically Initiated Explosive Devices) - Revision B 171 pages Electrical Grounding for Aircraft Safety 290 pages Fuse and Fuse Components, Environmental and Performance Tests for - Revision C 295 pages Requirements for the Control of Electromagnetic Interference Characteristics of Subsystems and Equipment - Revision E 253 pages Maintainability*

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*Electromagnetic Compatibility Design Guide for Avionics and Related Ground Support Equipment*

*EMI Troubleshooting Cookbook for Product Designers*

*EMC at Component and PCB Level*

*RF Design Guide*

*Electric Circuit Design*

*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 interference and covers the basics of EMC design, physics, and installation, minimizing theory and concentrating upon the correct way to ground and shield. Covering EMC from the inside 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, and interconnect. It contains appendices that provide important reference material such as constants and conversion factors.*

*This book highlights the complex issues, tasks and skills that must be mastered by an IP designer, in order to design an optimized and robust digital circuit to solve a problem. The techniques and methodologies described can serve as a bridge between specifications that are known to the designer and RTL code that is final outcome, reducing significantly the time it takes to convert initial ideas and concepts into right-first-time silicon.*

*Coverage focuses on real problems rather than theoretical concepts, with an emphasis on design techniques across various aspects of chip-design.*

*In 1996, enforcement of the mandatory European Union EMI/EMC (electromagnetic interference and compatibility) began. Before that time, many designers were just beginning to worry about "EMI problems". Now, 8 years later, the same old EMI problems are still with us, and some new ones have emerged as well. Anyone selling components or equipment of any sort in Europe and therefore the world for most globally based companies requires compliance with the EMC directive. There is no alternative. The information in this book enables faster, cheaper compliance.*

*Gain fast access to design information required for any RF communication project using high-frequency circuits and systems with this bestseller. It contains measurement methods, system calculations, statistical procedures, and actual circuit and measurement examples that help you shorten design cycles, improve quality, and reduce design risks. Augmented with 400 equations and 210 figures, the book is an ideal reference for product designers and consultants in the RF and wireless communications industry and an outstanding learning tool for classroom use.*

*Systems, Circuits, and Equations*

*A Handbook for EMC Testing and Measurement*

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*If you design electronics for a living, you need Robust Electronic Design Reference Book. Written by a working engineer, who has put over 115 electronic products into production at Sycor, IBM, and Lexamark, Robust Electronic Design Reference covers all the various aspects of designing and developing electronic devices and systems that: -Work. -Are safe and reliable. -Can be manufactured, tested, repaired, and serviced. -May be sold and used worldwide. -Can be adapted or enhanced to meet new and changing requirements.*

*With electromagnetic compliance (EMC) now a major factor in the design of all electronic products, it is crucial to understand how electromagnetic interference (EMI) shielding products are used in various industries. Focusing on the practicalities of this area, Advanced Materials and Design for Electromagnetic Interference Shielding comprehensively introduces the design guidelines, materials selection, characterization methodology, manufacturing technology, and future potential of EMI shielding. After an overview of EMI shielding theory and product design guidelines, the book extensively reviews the characterization methodology of EMI materials. Subsequent chapters focus on particular EMI shielding materials and component designs, including enclosures, metal-formed gaskets, conductive elastomer and flexible graphite components, conductive foam and ventilation structures, board-level shielding materials, composite materials and hybrid structures, absorber materials, grounding and cable-level shielding materials, and aerospace and nuclear shielding materials. The last chapter presents a perspective on future trends in EMI shielding materials and design. Offering detailed coverage on many important topics, this indispensable book illustrates the efficiency and reliability of a range of materials and design solutions for EMI shielding.*

*Based on over twenty years of hands-on experience with electromagnetic interference (EMI), Digital Design for Interference Specifications provides circuit designers concrete rules that can be applied immediately to the design of new digital products. The authors' techniques emphasize EMI source suppression at the printed circuit board level and considers shielding only as a last resort. The material is written in a how-to format with brief qualitative explanations of why or how design recommendations suppress emissions or reduce susceptibility. The described approaches toward design and prevention of EMI will save manufacturers time, product cost, and enhance manufacturability. Best of all, designers will not have to be EMI gurus to implement these processes but they will definitely look like experts when the final outcome is assessed. Digital Design for Interference Specifications is a very well written book targeted directly toward circuit designers and EMI professionals. The authors built a consulting company out of the knowledge presented in the book working with a huge list of clients over the years. The material is written to directly apply to circuit designers' projects helping them save money and time on each design. The book is heavily and clearly illustrated. A practical, hands-on guide to EMI suppression and*

*prevention. Written by circuit designers for use by circuit designers. Heavily illustrated and easy to read.*

*Edn Designers Guide to Electromagnetic Compatibility*

*Digital Design for Interference Specifications*

*Printed Circuit Board Design Techniques for EMC Compliance*

*Electromagnetic Compatibility Principles and Practices*

*Manuals Combined: Nondestructive Testing (NDT) And Inspection (NDI)*

*Marshall Space Flight Center Electromagnetic Compatibility Design and Interference Control (MEDIC) Handbook*

*"Electromagnetic compatibility (EMC) is an engineering discipline often identified as "black magic." This belief exists because the fundamental mechanisms on how radio frequency (RF) energy is developed within a printed circuit board (PCB) is not well understood by practicing engineers. Rigorous mathematical analysis is not required to design a PCB. Using basic EMC theory and converting complex concepts into simple analogies helps engineers understand the mitigation process that deters EMC events from occurring. This user-friendly reference covers a broad spectrum of information never before published. It is as fluid and comprehensive as the first edition. The simplified approach to PCB design and layout is based on real-life experience, training, and knowledge. Printed Circuit Board Techniques for EMC Compliance, Second Edition will help prevent the emission of unwanted RF energy generated by components and interconnects, thus achieving acceptable levels of EMC for electrical equipment. It prepares one for complying with stringent domestic and international regulatory requirements. Also, it teaches how to solve complex problems with a minimal amount of theory and math. Essential topics discussed include: \* Introduction to EMC \* Interconnects and I/O \* PCB basics \* Electrostatic discharge protection \* Bypassing and decoupling \* Backplanes-Ribbon Cables-Daughter Cards \* Clock Circuits-Trace Routing-Terminations \* Miscellaneous design techniques This rules-driven book-formatted for quick access and cross-reference-is ideal for electrical and EMC engineers, consultants, technicians, and PCB designers regardless of experience or educational background." Sponsored by: IEEE Electromagnetic Compatibility Society*

*This book provides the knowledge and good design practice for the design or test engineer to take the necessary measures to improve EMC performance and therefore the chance of achieving compliance, early on in the design process. There are many advantages for both the component supplier and consumer, of looking at EMC at component and PCB level. For the suppliers, not only will their products have the competitive edge because they have known EMC performance, but they will be prepared should EMC compliance become mandatory in the future. For consumers it is a distinct advantage to know how a component will behave within a system with regard to EMC. Shown how to achieve EMC compliance early on in the design process provides the knowledge to trace system EMC performance problems Follows best design practices*

*Bringing together the expertise of world authorities in the field, Design for X is the first comprehensive book to offer systematic and structured coverage of contemporary and concurrent product development techniques. It features over 1100s new techniques, including: design for manufacture and assembly; design for distribution; design for quality; and design for the environment. Alternative approaches and common elements are discussed and critical issues such as integration and tradeoff are explored.*

*This hands-on trouble-shooting style book offers step-by-step 'recipes' to assist those who are trying to solve EMI problems, by detailing exactly what to do and how to do it.*

*Theory and Methods of Quantification Design on System-Level Electromagnetic Compatibility*

*The Electrical Engineering Handbook - Six Volume Set*

*PCB Design and Layout Fundamentals for EMC*

*The Art of Hardware Architecture*

*Engineering Design Handbook*

*CDDF Final Report, Project No. 93-15*

*This book deals with practical concepts of Electromagnetic Compatibility testing and design. Given the scorching pace at which electronic gadgets are evolving, deadlines associated with product design are shrinking rapidly. In such a scenario, the designer obviously has no time to read mathematical theory. Keeping this fact in mind, the book explains only the practical aspects of EMC design without resorting to equations or mathematical derivations whatsoever. It has been designed in such a way that the designer can immediately incorporate EMC measures without worrying about the mathematics behind it. The book starts with EMC fundamentals, speaks about EMC standards and then goes on to explain various EMC test methodologies in detail. In the subsequent chapters, various design measures like filtering, shielding, grounding & bonding, PCB design and cable routing are discussed thoroughly. These measures will enable manufacturers to design a compliant product at the design stage itself thereby saving time and money that would otherwise be required for costly retrofits once the design is frozen.*