LECTROSTATIC DISCHARG AND ELECTRONIC EQUIPMENT

A PRACTICAL GUIDE FOR DESIGNING
TO PREVENT ESD PROBLEMS

Warren Boxleitner



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Christian G. Meyer

Electrostatic Discharge And Electronic Equipment A Practical Guide For Designing To Prevent Esd Problems: Electrostatic Discharge and Electronic Equipment Warren Boxleitner, 1989 Architectural Electromagnetic

Shielding Handbook Leland H. Hemming, 2000-08-02 The first volume ever to cover all aspects of the subject Architectural Electromagnetic Shielding Handbook provides the practicing architect engineer with a comprehensive guide to electromagnetic shielding This practical handbook is a one stop source for every form of shielding enclosure now used in commercial and government test laboratories communication and computer centers and electromagnetic hardened facilities designed to prevent electromagnetic interference EMI from reaching either a sensitive piece of equipment or an unauthorized agency Additional features include extensive supporting information on penetrations such as doors vents piping and electromagnetic filters for each type of shielding complete descriptions of modular welded and architectural forms of shielding as well as design checklists for shielded enclosure installation detailed descriptions of performance specifications and methods of testing necessary to prove performance Now you can have practical design and manufacturing techniques for solving ESD problems associated with sophisticated equipment used in a home or office environment This book takes the mystery out of ESD by showing how it is generated and how it affects electronic devices such as integrated circuits It provides practical guidelines and the rationale on how ESD solutions can work for you **Electrostatic Discharge** Kenneth L. Kaiser, 2005-09-22 In chapters culled from the popular and critically acclaimed Electromagnetic Compatibility Handbook Electrostatic Discharge provides a tightly focused convenient and affordable reference for those interested primarily in this subset of topics Author Kenneth L Kaiser demystifies electrostatic discharge and explains the source and limitations of the approximations guidelines models and rules of thumb used in this field. The material is presented in a unique guestion and answer format that gets straight to the heart of each topic The book includes numerous examples and uses Mathcad to generate all of the figures and many solutions to equations In many cases the entire Mathcad program is provided

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of these tools and guidelines is overwhelming and worse still is the thought of investigating their origins and confirming their results The Electromagnetic Compatibility Handbook is an unprecedented compilation of the many approximations guidelines models and rules of thumb used in EMC analyses complete with their sources and their limitations. The book presents these in an efficient question and answer format and incorporates an extremely comprehensive set of tables and figures The 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 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 and equations Designed to be of long lasting value to engineers researchers and students the Electromagnetic Compatibility Handbook is ideal both for quick reference and as a textbook for upper level and graduate electrical engineering courses A Practical Guide to EMC Engineering Levent Sevgi, 2017-03-31 This practical new resource explores the fundamentals of EMC engineering and examines the concepts and underpinnings of electromagnetics This book highlights the procedures from design to market for both technical and non technical issues including market control accreditation calibration EMC tests and measurement and EMC protection Basic electrical engineering theories Maxwell equations EM scattering diffraction and propagation in the electromagnetic model are presented. The circuit model including lumped parameter circuit elements two port circuit definitions grounding common and differential model currents and microstripline circuits are explored This book also covers antennas and antenna calibration including communication antennas normalized site attenuation NSA loop antennas and loop antenna calibration LAC Noise and frequency analysis on fundamental electromagnetic signals noise and transforms is explained Readers find insight into EMC test and measurement environments and devices Time saving MATLAB code is included in this resource to help engineers with their projects in the field Wireless Sensor Networks Jr., Edgar H. Callaway, 2003-08-26 Because they provide practical machine to machine communication at a very low cost the popularity of wireless sensor networks is expected to skyrocket in the next few years duplicating the recent explosion of wireless LANs Wireless Sensor Networks Architectures and Protocols describes how to build these networks from the layers of the

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tissues outer space and sea water It also deals with a range of different functions dependent on the area of application For example at very low power frequencies electromagnetic fields perform vastly different functions from device to device such as in power transformers current transformers infrared sensors synchronous generators superconducting devices electric motors and electric powered transport systems This handbook will be of great help to students engineers innovators and researchers working in a wide variety of disciplines Fundamentals of Engineering Electromagnetics Rajeev Bansal, 2018-10-08 Electromagnetics is too important in too many fields for knowledge to be gathered on the fly A deep understanding gained through structured presentation of concepts and practical problem solving is the best way to approach this important subject Fundamentals of Engineering Electromagnetics provides such an understanding distilling the most important theoretical aspects and applying this knowledge to the formulation and solution of real engineering problems Comprising chapters drawn from the critically acclaimed Handbook of Engineering Electromagnetics this book supplies a focused treatment that is ideal for specialists in areas such as medicine communications and remote sensing who have a need to understand and apply electromagnetic principles but who are unfamiliar with the field Here is what the critics have to say about the original work accompanied with practical engineering applications and useful illustrations as well as a good selection of references those chapters that are devoted to areas that I am less familiar with but currently have a need to address have certainly been valuable to me This book will therefore provide a useful resource for many engineers working in applied electromagnetics particularly those in the early stages of their careers Alastair R Ruddle The IEE Online a tour of practical electromagnetics written by industry experts provides an excellent tour of the practical side of electromagnetics a useful reference for a wide range of electromagnetics problems a very useful and well written compendium Alfy Riddle IEEE Microwave Magazine Fundamentals of Engineering Electromagnetics lays the theoretical foundation for solving new and complex engineering problems involving electromagnetics **High-Voltage Engineering** Mazen Abdel-Salam, 2018-10-03 Bridges the gap between laboratory research and practical applications in industry and power utilities clearly organized into three distinct sections that cover basic theories and concepts execution of principles and innovative new techniques Includes new chapters detailing industrial uses and isues of hazard and safety and review excercises to accompany each chpter

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