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Electromagnetic Compatibility (EMC) Design and Test Case ...

1 Introduction to Electromagnetic Compatibility (EMC) 1 1.1 Aspects of EMC 3 1.2 History of EMC 10 1.3 Examples 12 1.4 Electrical Dimensions and Waves 14 1.5 Decibels and Common EMC Units 23 1.5.1 Power Loss in Cables 32 1.5.2 Signal Source Specification 37 Problems 43 References 48 2 EMC Requirements for Electronic Systems 49

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Introduction to electromagnetic compatibility (EMC) EMC requirements for electronic systems Signal spectra, the relationship between the time domain and the frequency domain Transmission lines and signal integrity Nonideal behavior of components Conducted emissions and susceptibility Antennas Radiated emissions and susceptibility

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The electromagnetic field can be analyzed using Maxwell's equations but the electric or magnetic field must be known to completely analyze the unknown field. The wave equation solution will begin with the Cartesian coordinate system but will be extended to cylindrical and spherical coordinate systems.

Introduction To Electromagnetic Compatibility Wiley

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.

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Summary This appendix contains sections titled: Creating the SPICE or PSPICE Program Circuit Description Execution Statements Output Statements Examples References

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1 Introduction to Electromagnetic Compatibility (EMC) 1. 1.1 Aspects of EMC 3. 1.2 History of EMC 10. 1.3 Examples 12. 1.4 Electrical Dimensions and Waves 14. 1.5 Decibels and Common EMC Units 23. Problems 43. References 48. 2 EMC Requirements for Electronic Systems 49. 2.1 Governmental Requirements 50. 2.2 Additional Product Requirements 79

Appendix D: A SPICE (PSPICE) Tutorial - Introduction to ...

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