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Introduction to Electromagnetic Compatibility (Second Edition)

By Clayton R. Paul

Wiley India Pvt. Ltd, 2010. Softcover. Book Condition: New. 2nd edition. 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 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. Preface. 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. Crosstalk. Shielding. System Design for EMC. Appendix A: The Phasor Solution Method. Appendix B: The Electromagnetic Field Equations and Waves. Appendix C: Computer Codes for Calculating the Per-Unit-Length Parameters and Crosstalk of Multiconductor Transmission Lines. Appendix D: Spice...



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