



Signal Integrity Issues and Printed Circuit Board Design

Douglas Brooks

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This book covers the increasingly complex area of Signal Integrity issues in PCB design thoroughly, but without a need for great technical depth of understanding. Section 1 is an overview of electrical engineering principles that can serve as an introductory course for someone without any engineering education, or a review for someone who has. Section 1 can be skipped for people who already have a solid understanding in EE. Section 2 covers the major causes of signal integrity problems on printed circuit boards (a) EMI, (c) crosstalk, (c) signal reflections and transmission lines, and (d) power system decoupling (bypass capacitors). Each topic is covered in depth with real world illustrations and numerous examples. Two complete chapters are devoted to examples of how high-end computer simulation software packages view signal integrity problems and their solutions.



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