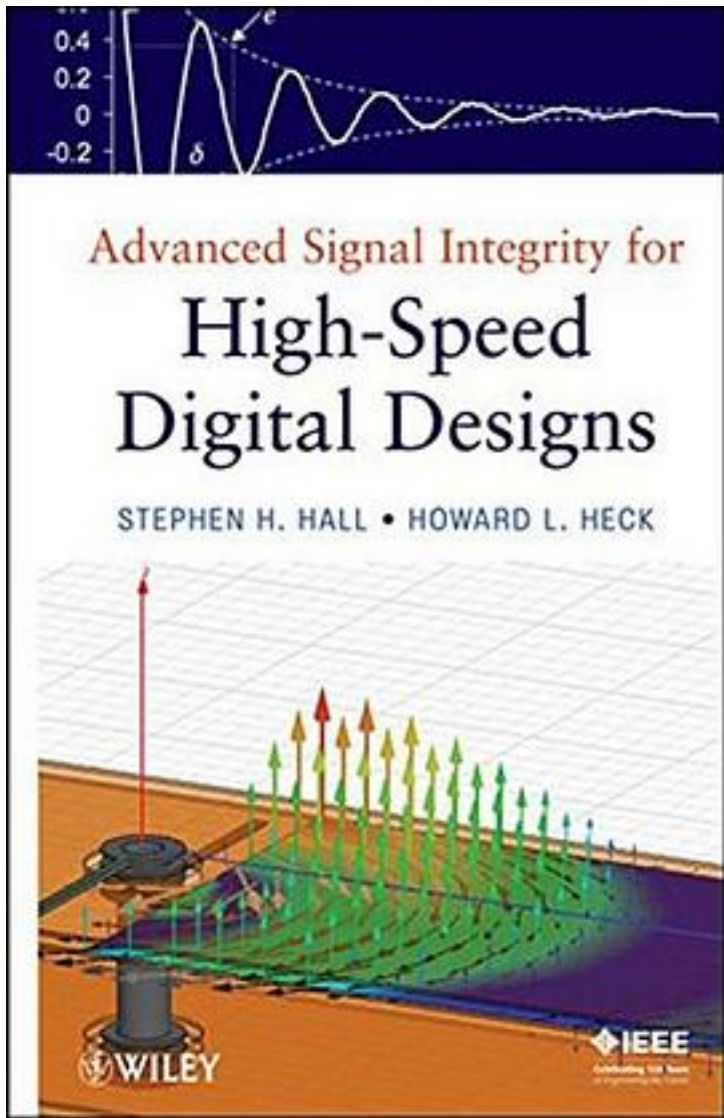# Advanced Signal Integrity for High-Speed Digital Designs

[Advanced Signal Integrity for High-Speed Digital Designs_下载链接1_](#)

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A synergistic approach to signal integrity for high-speed digital design This book is designed to provide contemporary readers with an understanding of the emerging high-speed signal integrity issues that are creating roadblocks in digital design. Written by the foremost experts on the subject, it leverages concepts and techniques from non-related fields such as applied physics and microwave engineering and applies them to high-speed digital design—creating the optimal combination between theory and practical applications. Following an introduction to the importance of signal integrity, chapter coverage includes: Electromagnetic fundamentals for signal integrity Transmission line fundamentals Crosstalk Non-ideal conductor models, including surface roughness and frequency-dependent inductance Frequency-dependent properties of dielectrics Differential signaling Mathematical requirements of physical channels S-parameters for digital engineers Non-ideal return paths and via resonance I/O circuits and models Equalization Modeling and budgeting of timing jitter and noise System analysis using response surface modeling Each chapter includes many figures and numerous examples to help readers relate the concepts to everyday design and concludes with problems for readers to test their understanding of the material. Advanced Signal Integrity for High-Speed Digital Designs is suitable as a textbook for graduate-level courses on signal integrity, for programs taught in industry for professional engineers, and as a reference for the high-speed digital designer.

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标签

signal

integrity

SI

专业书

评论

信号完整性方向2大编程指南书之一.
基于这本书，写了fir-tap-cal(ZF.MMSE).worst_pattern-gen.rsm analysis.
后面的几个大章基本每一个点都有写代码验证 推荐配合TAMU的课程一起学习。

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书评

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