



Advanced Signal Integrity for High-Speed Digital Designs

Stephen H. Hall, Howard L. Heck

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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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