



Signal Integrity: From High Speed to Radiofrequency Applications (Digital Signal and Image Processing)

By Fabien Ndagijimana

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This book presents the necessary concepts for the design and testing of radiofrequency and high-speed circuits. Signal and propagation theory is presented for the various circuit levels, from the chip to the PCB. The co-existence of high-speed wideband signals of radiofrequency signals and supply circuits is developed in order to provide design rules for engineers and Masters-level students. The subjects covered include: interconnections and signal integrity; spectral analysis techniques for high-speed signals; design techniques for signal integrity; the transmission-line concept; methods for temporal analysis and techniques for frequency domain analysis for connectics.

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Signal Integrity: From High Speed to Radiofrequency Applications (Digital Signal and Image Processing) By Fabien Ndagijimana Bibliography

- Rank: #5251186 in Books
- Published on: 2014-06-23
- Original language: English
- Number of items: 1
- Dimensions: 9.50" h x .84" w x 6.40" l, .0 pounds
- Binding: Hardcover
- 176 pages



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