



Wolfgang Maichen

Digital Timing Measurements

From Scopes and Probes to Timing and Jitter

Series: Frontiers in Electronic Testing

- Very practice-oriented introduction into timing and jitter measurements
- Written from a test and characterization engineer's perspective
- Assembles a set of relevant topics that are usually widely scattered
- Saves time and effort because it concentrates on the vital essence
- Enables further study through extensive references

As many circuits and applications now enter the Gigahertz frequency range, accurate digital timing measurements have become crucial in the design, verification, characterization, and application of electronic circuits. To be successful in this endeavour, an engineer needs a knowledge base covering instrumentation, measurement techniques, signal integrity, jitter and timing concepts, and statistics. Very often even the most experienced digital test engineers, while mastering some of those subjects, lack systematic knowledge or experience in the high speed signal area. Digital Timing Measurements gives a compact, practice-oriented overview on all those subjects. The emphasis is on useable concepts and real-life guidelines that can be readily put into practice, with references to the underlying mathematical theory. It unites in one place a variety of information relevant to high speed testing, measurement, signal fidelity, and instrumentation.

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