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Fundamentals of Vector Network Analysis

Dear Reader,

One of the most common measuring tasks in RF engineering is the analysis of circuits, from simple filters and amplifiers to complex satellite communication modules. As an extremely versatile test instrument, a VNA is the ideal equipment for quickly and precisely uncovering signal integrity problems, such as reflections and crosstalk.

This primer describes the fundamentals of vector network analysis, as well as practical instructions for improving accuracy, performing calibration, and making typical linear and time-domain measurements.

Key topics:

- Introduction to Network Analyzers
- Scattering Parameters (S-Parameters)
- Best Practices for VNA Accuracy
- VNA Calibration Techniques
- Linear VNA Measurements
- Reflection Coefficient
- Transmission Coefficient
- Group Delay
- Time-Domain Measurements

Enjoy reading!

Your Rohde & Schwarz team

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