Abstracts

A short-open deembedding technique for method-of-moments-based electromagnetic analyses

M. Farina and T. Rozzi. "A short-open deembedding technique for method-of-moments-based electromagnetic analyses." 2001 Transactions on Microwave Theory and Techniques 49.4 (Apr. 2001, Part I [T-MTT]): 624-628.

A short-open calibration (SOC) technique for deembedding structures with an arbitrary, possibly coupled, number of ports is introduced in this paper. While deembedding algorithms used in commercial software packages require the analysis of two "standard" structures for each set of ports, the proposed solution requires only one standard to be analyzed, with a significant reduction in the overall computation time. Moreover, unlike other deembedding techniques, the SOC technique does not rely on specific assumptions about the nature of the port discontinuities and of the feeding lines. This fact circumvents ambiguities linked to the definition of the characteristic impedance when hybrid modes are involved. Implementation-ready formulas are provided.

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