Abstracts

Numerical TRL calibration technique for parameter extraction of planar integrated discontinuities in a deterministic MoM algorithm

Lin Li, Ke Wu and Lei Zhu. "Numerical TRL calibration technique for parameter extraction of planar integrated discontinuities in a deterministic MoM algorithm." 2002 Microwave and Wireless Components Letters 12.12 (Dec. 2002 [MWCL]): 485-487.

In this letter, a thru-reflect-line (TRL) calibration procedure is applied and integrated with a full-wave method-of-moments (MoM) simulator for the parameter extraction of planar discontinuities and circuits. Three TRL calibration standards are numerically formulated and consistently characterized by the MoM simulator. An equivalent circuit model of a circuit discontinuity of interest can then be extracted by calibrating out the erroneous effect of port discontinuity in the deterministic MoM algorithm. As an example, a microstrip open-end circuit is comparatively studied in terms of its equivalent fringing capacitance, and effectiveness of the proposed technique is verified.

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