Abstracts

Millimeter-Wave Deembedding Using the Extended TRL (ETRL) Approach

M.I. Herman, C.K. Pao, G.L. Lan and J.C. Chen. "Millimeter-Wave Deembedding Using the Extended TRL (ETRL) Approach." 1990 MTT-S International Microwave Symposium Digest 90.3 (1990 Vol. III [MWSYM]): 1033-1036.

A new approach for deembedding is presented which utilizes known physical transmission line lengths instead of electrical characteristics for calibration standards. This allows one to perform millimeter-wave deembedding for waveguide based vector network analyzers. Theoretical formulation of ETRL and experimental characterization for V-band microstrip lines will be shown. Important design guidelines and selection of valid root choice of the formulation will be described.

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