Abstracts

A Comprehensive Evaluation of Quasi-Static 3D-FD Calculations for More Than 14 CPW Structures - Lines, Discontinuities and Lumped Elements

P. Pogatzki, R. Kulke, T. Sporkmann, D. Kother, R. Tempel and I. Wolff. "A Comprehensive Evaluation of Quasi-Static 3D-FD Calculations for More Than 14 CPW Structures - Lines, Discontinuities and Lumped Elements." 1994 MTT-S International Microwave Symposium Digest 94.2 (1994 Vol. II [MWSYM]): 1289-1292.

This paper reports on the on wafer evaluation up to 67GHz of a complete library of coplanar elements for application in MMIC design. The elements under consideration were fabricated on GaAs and simulated utilising a quasi-static 3D-FD tool and measured by a state-of-the-art measurement system. This library covers the range from transmission lines over discontinuities/junctions to lumped elements like inductors, resistors (TFR) and capacitors (MIM). Transmission line effects of TFR's with high DC values and MIM's with relative large geometries are also discussed in this paper.

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