Abstracts

Electromagnetic analysis of planar circuitry and the dimensionality argument

L. Albasha and C.M. Snowden. "Electromagnetic analysis of planar circuitry and the dimensionality argument." 1997 MTT-S International Microwave Symposium Digest 1. (1997 Vol. I [MWSYM]): 321-324.

In this paper evaluations are carried out on the EM simulation accuracy of microstrip circuits using 2D and 3D Electromagnetic solvers, employing the TLM method. Different aspects of microstrip modelling are addressed including a new simplified excitation methodology. Illustrated simulations, supported by measured data, identify the advantages and disadvantages of modelling planar circuitry in both domains. The 3D domain provides greater accuracy due to its ability in representing more realistically the physical layout of these circuits.

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