

Abstracts

A New Approach to Quasi-Static Analysis with Application to Microstrip

M.D. Prouty, K.K. Mei, S.E. Schwarz and R. Pous. "A New Approach to Quasi-Static Analysis with Application to Microstrip." 1993 Microwave and Guided Wave Letters 3.9 (Sep. 1993 [MGWL]): 302-304.

The measured equation of invariance (MEI), a new, rapid technique for electromagnetic field analysis, is applied for the first time to planar circuit problems. Variations of the technique applicable to microstrip geometry are described. As demonstration, it is then applied to electrostatic analysis of structures held at different potentials, using novel umbilical meshes. The MEI technique offers the possibility of order-of-magnitude increases in computational speed for typical problems of microwave CAD.

[Return to main document.](#)