

Full-Wave Analysis of 3D Metallization Structures Using a Spectral Domain Technique

T. Becks and I. Wolff. "Full-Wave Analysis of 3D Metallization Structures Using a Spectral Domain Technique." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 1123-1126.

A full-wave method for the investigation of microstrip- and coplanar-structures including 3d metallization structures is presented. Spectral domain analysis method is used to calculate the S-parameters of unshielded microwave components containing bond-wires and air-bridges. The general formulation and the procedure of the method are described. The application of the theory is given by a comparison of measured and calculated results for a spiral inductor.

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