Abstracts

Analysis of Planar Circuit Discontinuities Using the Quasi-Static Space-Spectral Domain Approach

A new deterministic quasi-static method is presented for the analysis of arbitrarily shaped planar circuit discontinuities including air bridges. Using the basic principles of the space-spectral domain approach (SSDA), this new method leads to an algebraic matrix equation for the discontinuity s-parameters. The resulting algorithm is computationally very efficient. Results are presented for microstrip and CPW discontinuities as well as CPW air bridges.

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