

Abstracts

Equivalent Capacitances of Coplanar Waveguide Discontinuities and Interdigitated Capacitors Using a Three-Dimensional Finite Difference Method

M. Naghed and I. Wolff. "Equivalent Capacitances of Coplanar Waveguide Discontinuities and Interdigitated Capacitors Using a Three-Dimensional Finite Difference Method." 1990 Transactions on Microwave Theory and Techniques 38.12 (Dec. 1990 [T-MTT] (1990 Symposium Issue)): 1808-1815.

Equivalent capacitances of coplanar waveguide discontinuities on multilayered substrates are calculated using a three-dimensional finite difference method. The application of the method is demonstrated for open ends and gaps in microstrip and coplanar waveguides as well as for more complicated structures such as interdigitated capacitors. The effect of conductor metallization thickness is also investigated. The calculated data are in good agreement with experimental results.

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