

Abstracts

A New Method for Calculating the Capacitance of a Circular Disk for Microwave Integrated Circuits (Short Papers)

T. Itoh and R. Mittra. "A New Method for Calculating the Capacitance of a Circular Disk for Microwave Integrated Circuits (Short Papers)." 1973 Transactions on Microwave Theory and Techniques 21.6 (Jun. 1973 [T-MTT]): 431-432.

A method for calculating the capacitance of a circular disk on a dielectric substrate backed by a ground plane is presented. Hankel transforms and Galerkin's method are used to derive the expression for the capacitance. Numerical results are compared with the experimental data and good agreement is reported.

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