

Abstracts

Capacitance of Coupled Circular Microstrip Disks

M. Takahashi and K. Hongo. "Capacitance of Coupled Circular Microstrip Disks." 1982 Transactions on Microwave Theory and Techniques 30.11 (Nov. 1982 [T-MTT]): 1881-1888.

The coupling between circular disks placed on a grounded dielectric substrate is studied analytically and numerically. The problem is formulated exactly by applying the Kobayashi potential, which uses discontinuity properties of Weber-Schafheitlin integrals, as an electrostatic problem when the potentials on the disks are specified. Numerical results for charge distribution and gap capacitance are presented. The potential distribution on the disks is calculated numerically to check if it satisfies the specified boundary condition.

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