

Abstracts

Equivalent Circuits for Dielectric Posts in a Rectangular Waveguide (Short Papers)

K. Ise and M. Koshiba. "Equivalent Circuits for Dielectric Posts in a Rectangular Waveguide (Short Papers)." 1989 Transactions on Microwave Theory and Techniques 37.11 (Nov. 1989 [T-MTT]): 1823-1825.

Scattering by dielectric posts in a rectangular waveguide is investigated by a combination of the finite and boundary element methods (CFBEM), and the equivalent circuits are derived. Some of the lossless dielectric post resonances in a rectangular waveguide can be physically realized by a lattice circuit, and the interaction between two posts can be evaluated by this circuit.

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