Abstracts

Mutual Impedance Between Probes in a Circular Waveguide

B.-S. Wang. "Mutual Impedance Between Probes in a Circular Waveguide." 1989 Transactions on Microwave Theory and Techniques 37.6 (Jun. 1989, Part I [T-MTT]): 1006-1011.

The general formulas of mutual impedance between two probes arbitrarily located in a circular waveguide are given by means of a dyadic Green's function (DGF) and reaction concept. The waveguide is semi-infinite. The reflection coefficient at the terminal plane is Gamma. The lengths, feeding points, and orientations of the two probes in the waveguide are all arbitrary. As examples, expressions of mutual impedance for three specific cases are given and discussed.

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