Abstracts

Computer-Aided Design of E-Plane Waveguide Passive Components

P. Fan and D. Fan. "Computer-Aided Design of E-Plane Waveguide Passive Components." 1989 Transactions on Microwave Theory and Techniques 37.2 (Feb. 1989 [T-MTT] (Special Issue on Quasi-Planar Millimeter-Wave Components and Subsystems)): 335-339.

The newly developed numerical analysis method for the inductive discontinuities in rectangular waveguide is presented. It can be used to analyze the scattering properties of E-plane uniform conductor-dielectric inserts in rectangular waveguide. These inserts are of arbitrary cross section and number. The calculation accuracy and speed are remarkably improved by a combined analytical-numerical approach. Some practical applications are given demonstrating its engineering usefulness.

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