

Abstracts

T-Junctions in Square Coaxial Waveguide: A FD-TD Approach (Short Papers)

E.A. Navarro, V. Such, B. Gimeno and J.L. Cruz. "T-Junctions in Square Coaxial Waveguide: A FD-TD Approach (Short Papers)." 1994 Transactions on Microwave Theory and Techniques 42.2 (Feb. 1994 [T-MTT]): 347-350.

The finite difference time domain (FD-TD) method is applied to model discontinuities in square coaxial waveguide, particularly a T-junction in square coaxial cable is studied. The separation of the computation domain in a total field region and a reflected field region, and the use of a synthetic excitation constituted of a great number of monochromatic waves allow us to develop an efficient algorithm. Numerical results are given for the scattering parameters of a T-junction in the band 1-6 GHz.

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