

Enhancements of the spectral-domain approach for analysis of microstrip Y-junction

B.L. Ooi, M.S. Leong, P.S. Kooi and T.S. Yeo. "Enhancements of the spectral-domain approach for analysis of microstrip Y-junction." 1997 Transactions on Microwave Theory and Techniques 45.10 (Oct. 1997, Part I [T-MTT]): 1800-1805.

Some enhancements of the spectral-domain approach in the polar coordinate are described. A simple and efficient algorithm is devised to numerically evaluate the contribution of the oscillatory tail of the two-dimensional (2-D) Sommerfeld integral. For the first time, four new vectorized basis functions are proposed. Good agreement is obtained between the simulated results and the measured data for a microstrip Y-junction in the 4-12 GHz range.

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