Abstracts

An Improved Modal Expansion Method for Two Cascaded Junctions and its Application to Waveguide Filters (Short Papers)

Z. Shen and R.H. MacPhie. "An Improved Modal Expansion Method for Two Cascaded Junctions and its Application to Waveguide Filters (Short Papers)." 1995 Transactions on Microwave Theory and Techniques 43.12 (Dec. 1995, Part I [T-MTT]): 2719-2722.

An improved modal expansion method is described for the scattering matrix of a cascaded network which consists of an enlargement junction combined with a reduction junction. The new method can significantly reduce computation time and requirement of computer memory. Application to iris coupled waveguide cavity filters is demonstrated. Numerical results for a rectangular waveguide cavity filter are given.

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