

Abstracts

The Scattering Matrix Formulation for Overmoded Coaxial Cavities (Short Papers)

W. Lawson and P.E. Latham. "The Scattering Matrix Formulation for Overmoded Coaxial Cavities (Short Papers)." 1992 Transactions on Microwave Theory and Techniques 40.10 (Oct. 1992 [T-MTT]): 1973-1977.

The scattering matrix formulation for complex right-circular cavities is extended to coaxial circuits with variable inner radii. The modified eigenvectors, which include the TEM wave, and the modified boundary conditions are presented. The properties of several configurations are examined and transmission measurements are shown to be in good agreement with theory.

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