

Abstracts

A Variational Expression for the Scattering Matrix of a Double-Step Discontinuity in a Coaxial Line and its Application to a TEM Cell

I. Sreenivasiah and D.C. Chang. "A Variational Expression for the Scattering Matrix of a Double-Step Discontinuity in a Coaxial Line and its Application to a TEM Cell." 1981 Transactions on Microwave Theory and Techniques 29.1 (Jan. 1981 [T-MTT]): 41-47.

A variational expression for the scattering matrix of a double-step discontinuity in a two-mode coaxial transmission line is obtained and generalized to the case of a multimode coaxial transmission line. The result is used to analyze the transmission characteristics of a two-mode coaxial TEM cell.

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