

Abstracts

Scattering of a Shielded Surface Wave in a Coaxial Waveguide by a Wall Impedance Discontinuity (Correspondence)

S. Vijayaraghavan and R.K. Arora. "Scattering of a Shielded Surface Wave in a Coaxial Waveguide by a Wall Impedance Discontinuity (Correspondence)." 1971 Transactions on Microwave Theory and Techniques 19.8 (Aug. 1971 [T-MTT]): 736-739.

The Wiener-Hopf technique is used to calculate the transmission and reflection coefficients of a shielded surface wave in a coaxial waveguide with inductively reactive inner surface and perfectly conducting outer surface and characterized by an abrupt wall reactance discontinuity. A lumped parameter equivalent circuit is derived for the discontinuity.

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