

Abstracts

Characteristic Impedances of Generalized Rectangular Transmission Lines

H. Guckel. "Characteristic Impedances of Generalized Rectangular Transmission Lines." 1965 Transactions on Microwave Theory and Techniques 13.3 (May 1965 [T-MTT]): 270-274.

The impedance of the generalized strip transmission line is computed by variational methods. The use of an upper bound and lower bound approximation yields an average impedance as well as a known maximum error. The one-dielectric microstrip line is treated as a limiting case. Losses are considered. Results include those problems which have been solved elsewhere by conformal mapping techniques as special cases.

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