

Abstracts

A New Variational Formulation, Applicable to Shielded and Open Multilayered Transmission Lines with Gyrotropic Non-Hermitian Lossy Media and Lossless Conductors

I. Huynen and A. Vander Vorst. "A New Variational Formulation, Applicable to Shielded and Open Multilayered Transmission Lines with Gyrotropic Non-Hermitian Lossy Media and Lossless Conductors." 1994 Transactions on Microwave Theory and Techniques 42.11 (Nov. 1994 [T-MTT]): 2107-2111.

A new variational expression is derived for the propagation constant of inhomogeneous shielded and open planar lines with gyrotropic lossy substrates. It yields rapidly convergent results even when higher order modes are considered. Results obtained on open and shielded lines and structures agree very well with experimental results. The efficiency of the formulation is such that calculations are made on-line on a regular PC.

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