

Abstracts

A New Formulation for the Analysis of Non-Uniform Transmission Lines Using Frequency-Varying Basis Functions

A.B. Kouki, A. Hamade and F.M. Ghannouchi. "A New Formulation for the Analysis of Non-Uniform Transmission Lines Using Frequency-Varying Basis Functions." 1995 MTT-S International Microwave Symposium Digest 95.2 (1995 Vol. II [MWSYM]): 817-820.

A new method of moment based formulation for the solution of the telegraphist's equations in non-uniform transmission lines is presented. Entire domain basis function that build-in a frequency variation are used to cover wider frequency and physical dimension ranges. The results obtained using the proposed formulation are validated by comparison to those obtained by a CAD package and to measured data.

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