

Abstracts

Spectral-Domain Approach for Calculating the Dispersion Characteristics of Microstrip Lines (Short Papers)

T. Itoh and R. Mittra. "Spectral-Domain Approach for Calculating the Dispersion Characteristics of Microstrip Lines (Short Papers)." 1973 Transactions on Microwave Theory and Techniques 21.7 (Jul. 1973 [T-MTT]): 496-499.

The boundary value problem associated with the open microstrip line structure is formulated in terms of a rigorous, hybrid-mode representation. The resulting equations are subsequently transformed, via the application of Galerkin's method in the spectral domain, to yield a characteristic equation for the dispersion properties of the open microstrip line. Numerical results are included for several different structural parameters. These are compared with other available data and with some experimental measurements.

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