Abstracts

A Technique for Computing Dispersion Characteristics of Shielded Microstrip Lines (Short Papers)

T. Itoh and R. Mittra. "A Technique for Computing Dispersion Characteristics of Shielded Microstrip Lines (Short Papers)." 1974 Transactions on Microwave Theory and Techniques 22.10 (Oct. 1974 [T-MTT]): 896-898.

The boundary value problem associated with the shielded microstripline 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 shielded microstrip lines. Among the advantages of the method are its simplicity and rapid convergence. Numerical results are included for several different structural parameters. These are compared with other available data and with some experimental results.

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