Abstracts

Microstrip Dispersion Including Anisotropic Substrates

B.E. Kretch and R.E. Collin. "Microstrip Dispersion Including Anisotropic Substrates." 1987 Transactions on Microwave Theory and Techniques 35.8 (Aug. 1987 [T-MTT]): 710-718.

A perturbation-iteration solution based on potential theory is developed for determining the effective dielectric constant, characteristic impedance, and current-charge distribution on a microstrip transmission line with isotropic and anisotropic substrates. The numerical implementation of the theory is described and is suitable for use on a personal computer. Computed data for several common substrate materials are included.

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