Abstracts

Microstrip Resonators on Anisotropic Substrates (Short Papers)

T.Q. Ho, B. Beker, Y.C. Shih and Y. Chen. "Microstrip Resonators on Anisotropic Substrates (Short Papers)." 1992 Transactions on Microwave Theory and Techniques 40.4 (Apr. 1992 [T-MTT]): 762-765.

The spectral domain method is applied to study shielded microstrip resonators printed on anisotropic substrates. A Green's function that takes into account the dielectric anisotropy effects is derived through a fourth order formulation. Galerkin's method is then applied to form the characteristic equation from which the resonant frequency of the microstrip resonator is numerically obtained. Results for a microstrip resonator situated on an isotropic substrate are used to validate the theory.

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