

Abstracts

Resonance in a Cylindrical Wraparound Microstrip Structure With Superstrate (Short Papers)

K.-L. Wong, R.-B. Tsai and J.-S. Row. "Resonance in a Cylindrical Wraparound Microstrip Structure With Superstrate (Short Papers)." 1994 Transactions on Microwave Theory and Techniques 42.6 (Jun. 1994 [T-MTT]): 1097-1100.

Analysis of the resonance problem of a cylindrical wraparound microstrip structure with superstrate is presented. In the study the rigorous full-wave formulation and Galerkin's method are used. The numerical convergence for the selected sinusoidal basis functions with edge singularity is also discussed. Numerical results of the superstrate loading effects on the real and imaginary parts of complex resonant frequency of the structure as a radiator at TE₀₁ mode and as a resonator at HE₁₀ mode are calculated and analyzed.

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