Abstracts

Vector finite Hankel transform analysis of shielded single and coupled microstrip ring structures

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The vector finite Hankel transform or the vector Bessel series expansion method is used to calculate the resonant frequencies of shielded single and coupled microstrip annular rings in a stratified dielectric structure. Vector global basis functions are employed to model the unknown currents on the ring conductors, and the calculations of their transforms are described. Calculated resonant frequencies for microstrip rings are presented and found to have good agreement with measurements.

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