Abstracts

Asymptotic High-Frequency Modes of Homogeneous Waveguide Structures with Impedance Boundaries

I.V. Lindell. "Asymptotic High-Frequency Modes of Homogeneous Waveguide Structures with Impedance Boundaries." 1981 Transactions on Microwave Theory and Techniques 29.10 (Oct. 1981 [T-MTT]): 1087-1093.

Homogeneous waveguides with both isotropic and anisotropic impedance boundaries are considered and asymptotic high-frequency mode properties are systematically derived. Among the new results are orthogonality properties of the asymptotic HF fields, existence of self-dual solutions, construction of stationary functionals, and an explicit formula for the calculation of the asymptotic attenuation coefficient for the general waveguide.

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