

Abstracts

Dispersion Relations for Comb-Type Slow-Wave Structures

I.L. Verbitskii. "Dispersion Relations for Comb-Type Slow-Wave Structures." 1980 Transactions on Microwave Theory and Techniques 28.1 (Jan. 1980 [T-MTT]): 48-50.

Asymptotically accurate dispersion relations for slow eigenwaves of a dense comb placed on the wall of a parallel-plate waveguide are given in closed form. The equations can be easily resolved numerically. An analysis of dispersion relations for combs, based on the above-mentioned equations, has advantages over commonly used methods because of the simplicity of the necessary calculations and clarity of results.

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