

Geometric resonance of the wakefield of a metal-dielectric waveguide

Monday 26 August 2024 16:00 (2 hours)

The patterns of occurrence of geometric resonances of the wakefield in a two-layer metal-dielectric cylindrical waveguide are determined. It is shown that the sequences of their resonant frequencies are determined by the thickness of the dielectric layer and the dielectric constant of the material filling it, and do not depend on the radius of the waveguide and on the serial number of the term of the multipole expansion of the frequency distribution of the radiation field.

Footnotes

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