Abstracts

Wave propagation properties in high-temperature superconducting parallel-plate waveguides

Jian-Guo Ma. "Wave propagation properties in high-temperature superconducting parallel-plate waveguides." 1999 Microwave and Guided Wave Letters 9.5 (May 1999 [MGWL]): 183-185.

The Meissner effect distinguishes superconductors, especially high-temperature superconductors (HTS's), from normal good conductors and perfect conductors. In this work, the Meissner effect is used as boundary conditions to discuss the wave propagation in an HTS parallel-plate waveguide. The results show that the wave properties of an HTS parallel-plate waveguide are much different from those of a good/perfect conducting parallel-plate waveguide.

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