Abstracts

Wave propagation properties in high-temperature superconducting parallel-plate waveguides (Comments)

H.J. Chaloupka. "Wave propagation properties in high-temperature superconducting parallel-plate waveguides (Comments)." 2000 Microwave and Guided Wave Letters 10.3 (Mar. 2000 [MGWL]): 114-114.

For the original paper see ibid., vol. 9, no. 5, p. 183-185 (1999). The commenter claims that the aforementioned paper contains some fundamental errors, particularly with regard to boundary condition for HTS structures, referred to as Meissner boundary condition. As a result of the incorrect boundary condition, the HTS surface is incorrectly modeled as a magnetic wall with H/sub t//spl ap/0. Consequently, the waveguide fields presented are the fields of structures with magnetic walls, but not of HTS structures.

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