

Abstracts

Electromagnetics in High-T_{sub} c/ Superconductors

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The behavior of electromagnetic fields in high-T_{sub} c/ superconductors (HTS's) is studied in order to examine their effects in classical electromagnetic boundary value problems. It is shown that an HTS can not be simply treated as a low loss conductor and boundary conditions of HTS's can not be considered as perfect conducting boundaries like conventional treatments. The electromagnetics of HTS are investigated in terms of complex conductivity, surface impedance with applied magnetic fields, and computational electrodynamics using the new proposed model in [1].

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