

Abstracts

Microwave Characteristics of Bulk High-T_c Superconductors

E. Belohoubek, A. Fathy and D. Kalokitis. "Microwave Characteristics of Bulk High-T_c Superconductors." 1988 MTT-S International Microwave Symposium Digest 88.1 (1988 Vol. 1 [MWSYM]): 445-448.

Currently most available high-T_c bulk material is in disk form that does not lend itself readily to microwave loss measurements. This paper describes a resonant measurement technique using low impedance disk resonators. The configuration enhances the influence of conductor losses on the resonator Q and thereby permits the evaluation of disks as a function of temperature in a relatively simple test configuration with good accuracy. Measurements on bulk YBa₂Cu₃O_{6+x} material will be described with conductivities at X-band ranging up to 10 times that of Au at 65°K.

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