

Abstracts

A two-mode dielectric rod resonator method for measuring surface impedance of high-T/sub c/ superconductors

Y. Kobayashi and H. Yoshikawa. "A two-mode dielectric rod resonator method for measuring surface impedance of high-T/sub c/ superconductors." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 1019-1022.

A novel technique is proposed to measure the surface impedance $Z_{\text{sub s/}}$ of high-T/sub c/ superconductors at microwave frequency by using two resonant modes in a dielectric rod resonator, the TE/sub 021/ and TE/sub 012/ modes. The repeatability of measurement is superior to the conventional method using two dielectric resonators.

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