Abstracts

Modelling of Miniaturized Coplanar Striplines Based on YBa/sub 2/Cu/sub 3/O/sub 7-x/ Thin Films

J. Kebler, P. Russer and R. Dill. "Modelling of Miniaturized Coplanar Striplines Based on YBa/sub 2/Cu/sub 3/O/sub 7-x/ Thin Films." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 1127-1130.

A miniaturized YBa/sub 2/Cu/sub 3/O/sub 7-x/ coplanar stripline (CPS) structure is investigated field-theoretically by means of a partial wave synthesis. The high-T/sub c/ superconductor material is described by the two-fluid model and the London theory. Approximation formula for effective permittivity, attenuation, and characteristic impedance are deduced from the numerical results.

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