Abstracts

Calculation of CPW A.C. Resistance and Inductance Using a Quasi-Static Mode-Matching Approach

H. Klingbeil and W. Heinrich. "Calculation of CPW A.C. Resistance and Inductance Using a Quasi-Static Mode-Matching Approach." 1994 Transactions on Microwave Theory and Techniques 42.6 (Jun. 1994 [T-MTT]): 1004-1007.

The a.c. resistance and inductance of a coplanar waveguide with nonideal conductivity are computed by means of a quasi-static mode-matching method. Convergence is examined and the numerical results are compared to those obtained by a full-wave mode-matching method. Regarding the frequency dependence, significant influence of the conductor losses is found.

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