Abstracts

A closed-form CAD-oriented model for the high-frequency conductor attenuation of symmetrical coupled coplanar waveguides

G. Ghione and M. Goano. "A closed-form CAD-oriented model for the high-frequency conductor attenuation of symmetrical coupled coplanar waveguides." 1997 Transactions on Microwave Theory and Techniques 45.7 (Jul. 1997 [T-MTT]): 1065-1070.

Closed-form CAD-oriented conformal-mapping approximations are presented for the HF attenuation of two-conductor symmetrical coupled coplanar waveguides (CCPWs). The expressions are compared with the results obtained from a full-wave electromagnetic (EM) simulator and found to yield acceptable agreement. A modified form is also presented, which partly overcomes the low-frequency limitations of the skin-effect approximation.

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