

Abstracts

Extending the Use of the Conformal Mapping Technique for the Calculation of the Quasi-TEM Parameters of Several Cylindrical and Wraaped Transmission

S.S. Bedair and I. Wolff. "Extending the Use of the Conformal Mapping Technique for the Calculation of the Quasi-TEM Parameters of Several Cylindrical and Wraaped Transmission." 1989 MTT-S International Microwave Symposium Digest 89.3 (1989 Vol. III [MWSYM]): 1127-1130.

An approach will be outlined in order to extend the use of the conformal mapping for the calculation of the quasi-TEM parameters of several cylindrical transmission lines. The approach leads, in most cases, to analytic closed form expressions. Some of the structures which will be analyzed, have been already analyzed by using the conformal mapping, some have also been analyzed but not with the use of the conformal mapping technique, others will be analyzed here for the first time. In all cases numerical results are presented for the aid of comparisons for the previously analyzed lines or to investigate some of the properties of the new ones.

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