Abstracts

Unified Dispersion Model for Multilayer Microstrip Line (Short Papers)

A.K. Verma and G.H. Sadr. "Unified Dispersion Model for Multilayer Microstrip Line (Short Papers)." 1992 Transactions on Microwave Theory and Techniques 40.7 (Jul. 1992 [T-MTT] (Special Issue on Process-Oriented Microwave CAD and Modeling)): 1587-1591.

A unified dispersion model is presented to calculate frequency dependent dielectric constant for a mulltilayer microstrip line. The model is a combination of TTL method, the method for the reduction of multilayer structures to an equivalent single layer microstrip line and the Kirschning and Jansen dispersion model. The result of the model has been confirmed within an accuracy of 1% against the results from SDA, IMDT AND MM i.e., various forms of full wave analysis. These results have been confirmed between 2 GHz and 18 GHz. The present model is suitable for use in a CAD package for MIC, MMIC, and printed antenna design.

❑ Return to main document.