

Abstracts

Field Distributions in Supported Coplanar Lines Using Conformal Mapping Techniques (Short Papers)

N.H. Zhu, E.Y.B. Pun and P.S. Chung. "Field Distributions in Supported Coplanar Lines Using Conformal Mapping Techniques (Short Papers)." 1996 Transactions on Microwave Theory and Techniques 44.8 (Aug. 1996 [T-MTT]): 1493-1496.

We use conformal mapping techniques to derive the analytical expressions for calculating the field distributions in supported coplanar lines. Our calculations agree well with the results obtained using the point matching method. Our method is an extension of the approximate technique proposed by Veyres and Hanna, and provides an accurate and fast calculation of the field distributions. This method can be extended to the analysis of other coplanar lines widely used in monolithic microwave integrated circuits (MMIC) and optical integrated circuits (OIC) applications.

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