

Abstracts

Analysis of Stripline Filled with Multiple Dielectric Regions (Short Papers)

A. Nyshadham and K.V.S. Rao. "Analysis of Stripline Filled with Multiple Dielectric Regions (Short Papers)." 1991 Transactions on Microwave Theory and Techniques 39.1 (Jan. 1991 [T-MTT]): 151-155.

The determination of the characteristic impedance of the stripline filled with different dielectric regions is discussed in this paper. Four rectangular dielectric regions whose interfaces are perpendicular to the ground planes are considered. The data on the characteristic impedance and effective dielectric constant are presented for the case of stripline filled with four rectangular regions having different dielectric constants. Results for impedance are compared with the data in the literature. Design data (w/b ratio and effective dielectric constant) are also presented.

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