

Abstracts

Design Charts for Inhomogeneous Coupled Microstrip Lines

A.E. Ros. "Design Charts for Inhomogeneous Coupled Microstrip Lines." 1978 *Transactions on Microwave Theory and Techniques* 26.6 (Jun. 1978 [T-MTT]): 394-400.

Owing to the bear variation of the odd- and even-mode capacitances in terms of the dielectric constant ϵ_r of the substrate, it has been possible to obtain formulas giving all the electrical characteristics of the lines for given values of the ratios, width w and separation s of the lines upon height h of the dielectric substrate. Conversely, by means of charts, it is possible to obtain the geometrical dimensions of the lines, whatever the value of ϵ_r , for the imposed matching impedance and coupling coefficient. The use of these charts is very easy, and the results are the closest to experimental data published to date.

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