Abstracts

Comparison between theoretical and measured microstrip gap parameters involving anisotropic substrates

J. Martel, F. Medina, R.R. Boix and M. Horno. "Comparison between theoretical and measured microstrip gap parameters involving anisotropic substrates." 1998 Transactions on Microwave Theory and Techniques 46.2 (Feb. 1998 [T-MTT]): 198-201.

In this paper, experimental results are presented for microstrip symmetrical-gap discontinuities. The experimental technique is based on the measurement of the resonant frequencies of several gap-coupled rectangular microstrip resonators. In particular, gap discontinuities on anisotropic dielectric and two-layer composite substrates have been investigated. Reasonably good agreement has been found in most cases between theoretical data [obtained by means of the excess charge technique in the spectral domain (EC-SDA)] and experimental data, even though the theoretical results have been obtained by using a quasi-static approach.

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