

Abstracts

Analysis of Coupled Slots and Coplanar Strips on Dielectric Substrate

J.B. Knorr and K.-D. Kuchler. "Analysis of Coupled Slots and Coplanar Strips on Dielectric Substrate." 1975 Transactions on Microwave Theory and Techniques 23.7 (Jul. 1975 [T-MTT]): 541-548.

A frequency-dependent hybrid-mode analysis of single and coupled slots and coplanar strips is presented. The dispersion characteristic and characteristic impedance of the structures are obtained by applying a Fourier transform technique and evaluating the resulting expressions numerically using the method of moments. Numerical results are presented and compared with results published by other investigators. The experimental performance of a slot-line coupler is compared with predicted performance based upon the results presented here for coupled slots. Excellent agreement has been obtained in all cases.

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