

Abstracts

Analysis of Coupled Cylindrical Striplines Filled with Multilayered Dielectrics

C.J. Reddy and M.D. Deshpande. "Analysis of Coupled Cylindrical Striplines Filled with Multilayered Dielectrics." 1988 Transactions on Microwave Theory and Techniques 36.9 (Sep. 1988 [T-MTT]): 1301-1310.

A method of analysis for coupled cylindrical striplines filled with multilayered dielectrics is presented using a variational technique in the space domain. Coupled mode analysis is presented for the case of a pair of coupled circular arc strips arbitrarily located between cylindrical ground planes filled with multilayered dielectrics. An even- and odd-mode approach is used for the analysis of shielded cylindrically curved edge-coupled pairs of broad-side parallel strips (broad-side, edge-coupled cylindrical striplines). The effect of environmental changes on an otherwise planar structure is also studied by extending the present analysis to cylindrically warped coupled striplines.

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