

## 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.

 [Return to main document.](#)