

# Abstracts

## A Generalized Model for Coupled Lines and its Applications to Two-Layer Planar Circuits

---

*C.-M. Tsai and K.C. Gupta. "A Generalized Model for Coupled Lines and its Applications to Two-Layer Planar Circuits." 1992 Transactions on Microwave Theory and Techniques 40.12 (Dec. 1992 [T-MTT] (1992 Symposium Issue)): 2190-2199.*

A generalized network model for asymmetrical and inhomogeneous coupled lines has been derived based on normal mode parameters. This model is useful for synthesis of single and multi-layer coupled-line circuits, such as planar baluns and directional couplers. The synthesis procedures are described and have been verified by comparing with analysis results.

 [Return to main document.](#)