Abstracts

Computer-Aided Design Models for Broadside-Coupled Striplines and Millimeter-Wave Suspended Substrate Microstrip Lines

P. Bhartia and P. Pramanick. "Computer-Aided Design Models for Broadside-Coupled Striplines and Millimeter-Wave Suspended Substrate Microstrip Lines." 1988 Transactions on Microwave Theory and Techniques 36.11 (Nov. 1988 [T-MTT]): 1476-1481.

The paper presents computer-aided design models for broadside-coupled striplines and suspended substrate microstrip lines. The models have been obtained from the results of conformal transformation on homogeneous stripline, the equivalence of the odd-mode with the quasi-TEM mode of covered microstrip line, and logarithmic regression of spectral-domain results. The models can take the effects of finite strip thickness into account. The present models will be vital to the CAD of microwave and millimeter-wave filters, couplers, dc blocks, and various other circuits.

❑ Return to main document.