Abstracts

A Quasi-TEM Analysis for Curved and Straight Planar Multiconductor Systems

H. Diestel. "A Quasi-TEM Analysis for Curved and Straight Planar Multiconductor Systems." 1989 Transactions on Microwave Theory and Techniques 37.4 (Apr. 1989 [T-MTT]): 748-753.

In this paper an extended quasi-TEM analysis is presented. The transverse field of the weakly curved planar multiconductor system is described by the static electric and magnetic solutions of the corresponding axially symmetrical structure. The capacitance and inductance matrices of this system of concentric microstrip rings are calculated using the "method of lines." A two-port network consisting of circularly curved transmission lines is calculated and the results are compared with measured values.

❑ Return to main document.