Abstracts

Quasi-Static Image Method Applied to Bi-Isotropic Microstrip Geometry

P.K. Koivisto and J.C.-E. Sten. "Quasi-Static Image Method Applied to Bi-Isotropic Microstrip Geometry." 1995 Transactions on Microwave Theory and Techniques 43.1 (Jan. 1995 [T-MTT]): 169-175.

A generalization of the partial image method, applicable for static planar-layered problems, is used to form Green's functions for the layered structure involving bi-isotropic medium. The results are applied for the analysis of a microstrip transmission line assumed to support the quasi-TEM mode. The capacitance and inductance per unit length are calculated to determine the propagation factor and impedance for the structure composed of a conducting strip attached to a bi-isotropic slab with conducting backing.

❑ Return to main document.