Abstracts

Analysis of Multiconductor Transmission Lines of Arbitrary Cross Section in Multilayered Uniaxial Media

C.G. Hsu, R.F. Harrington, K.A. Michalski and D. Zheng. "Analysis of Multiconductor Transmission Lines of Arbitrary Cross Section in Multilayered Uniaxial Media." 1993 Transactions on Microwave Theory and Techniques 41.1 (Jan. 1993 [T-MTT]): 70-78.

A mixed-potential electric field integral equation is formulated and applied in conjunction with the method of moments to analyze a transmission-line system consisting of multiple conducting strips of arbitrary cross section embedded in a stratified medium with or without top and/or bottom ground planes. Each layer of the medium is possibly uniaxially anisotropic, with its optical axis perpendicular to the dielectric interfaces. Computed dispersion curves and modal currents are presented and, when possible, are compared with data available in the literature.

❑ Return to main document.