Abstracts

Impedance Characteristics of a Class of Multiconductor Transmission Lines

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The characteristics of TEM modes propagating along a conical transmission line consisting of equiangular strips and exhibiting N-fold symmetry are investigated. Impedance eigenvalues for the eigenmodes of such structures are evaluated using no integral equation approach. Two techniques of calculating the eigenvalues are investigated and compared for this class of transmission line. The results are also compared to exact results available for self-complementary structures. Transverse field distributions along the conical line are also presented for the case N=6.

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