

Abstracts

Cutoff Frequencies of Transmission Lines Consisting of Pair of Cylinders (Short Papers)

B.N. Das, S.B. Chakrabarty and S. Das. "Cutoff Frequencies of Transmission Lines Consisting of Pair of Cylinders (Short Papers)." 1996 Transactions on Microwave Theory and Techniques 44.11 (Nov. 1996 [T-MTT]): 2110-2112.

The paper presents a method of evaluation of cutoff frequencies of higher-order modes of transmission line of parallel cylinders by transforming them into a parallel plate configuration using cotangent hyperbolic transformation. Application of the method of finite difference to the weighted Helmholtz equation leads to a set of simultaneous equations. The eigenvalues related to cutoff frequencies are determined from the characteristic equation expressed in terms of matrices obtained from the simultaneous equations. Numerical data are presented.

[Return to main document.](#)

Click on title for a complete paper.