

Abstracts

Higher Order Mode Cutoff in Polygonal Transmission Lines (Short Papers)

H.E. Green and J.D. Cashman. "Higher Order Mode Cutoff in Polygonal Transmission Lines (Short Papers)." 1985 Transactions on Microwave Theory and Techniques 33.1 (Jan. 1985 [T-MTT]): 67-69.

This paper provides an analytical solution to the problem of determining the cutoff wavelength of the first higher order mode in any transmission line having as its conductors a pair of coaxial, similar, similarly oriented regular polygons. The method is based on the cross-sectional resonance technique. It is shown that, under certain circumstances, the requirement that the polygons be coaxial can be relaxed and a solution still obtained in this way.

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