

Abstracts

A Method for the Study of TE and TM Modes in Waveguides of Very General Cross Section

J. Mazumdar. "A Method for the Study of TE and TM Modes in Waveguides of Very General Cross Section." 1980 Transactions on Microwave Theory and Techniques 28.9 (Sep. 1980 [T-MTT]): 991-995.

A simple method for the study of wave propagation in uniform hollow waveguides of very general cross sections is proposed. The method is based upon the concept of contour lines of electromagnetic field components on a typical cross section of the waveguide and applies when the boundary of the cross section of the guide is a closed curve. Examples show that values of cutoff frequencies can be obtained easily to a useful degree of accuracy.

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