

Abstracts

Higher-Order Modes in Dielectrically Loaded Rectangular Waveguides

F.E. Gardiol. "Higher-Order Modes in Dielectrically Loaded Rectangular Waveguides." 1968 Transactions on Microwave Theory and Techniques 16.11 (Nov. 1968 [T-MTT]): 919-924.

The problem of propagation in a waveguide containing E-plane slabs of dielectric was considered previously by several authors. However, their treatment was limited to the TE/sub mo/ modes. A more general and complete derivation of the dispersion equations for all the modes existing in these structures is presented here. It is shown, on the basis of theoretical and experimental results, that the frequency bandwidth is much smaller than the values previously obtained, considering only the TE/sub mo/ modes, for many cases of practical interest

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