

Abstracts

Spurious Mode Generation in Nonuniform Waveguide

L. Solymar. "Spurious Mode Generation in Nonuniform Waveguide." 1959 Transactions on Microwave Theory and Techniques 7.3 (Jul. 1959 [T-MTT]): 379-383.

This paper deals with the problem of a nonuniform waveguide joining two uniform ones and the spurious modes generated by it when a pure mode is incident in one of the uniform waveguides. The generalised telegraphist's equations are stated and transformed into a set of differential equations for the amplitudes of the forward and backward traveling waves. The expressions for the coupling coefficients between the various modes are given and analysed.

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