

Abstracts

Computer Analysis of the Fundamental and Higher Order Modes in Single and Coupled Microstrip

D.G. Corr and J.B. Davies. "Computer Analysis of the Fundamental and Higher Order Modes in Single and Coupled Microstrip." 1972 Transactions on Microwave Theory and Techniques 20.10 (Oct. 1972 [T-MTT]): 669-678.

By means of finite difference methods, dispersion curves are obtained for the fundamental and higher order hybrid modes in both single and coupled microstrip. Structures of realistic proportions are investigated by the use of a graded finite difference mesh. Variational methods are used in deriving the finite difference equations. The higher order modes are found to be similar to LSM slab line modes. A spurious nonphysical class of solutions is found to exist in this and similar formulations, the characteristics of which are described.

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