

Abstracts

Coupling of Modes in Uniform, Composite Waveguides

L.C. Bahiana and L.D. Smullin. "Coupling of Modes in Uniform, Composite Waveguides." 1960 Transactions on Microwave Theory and Techniques 8.4 (Jul. 1960 [T-MTT]): 454-458.

The principle of coupling of modes is used to compute the phase constant in a uniform waveguide filled with two different dielectric materials. The natural modes of two hypothetical waveguides filled with the different dielectrics are computed. The propagation of the combined system is computed by considering the coupling between the two sets of modes. Comparison is made between the approximate theory and an exact theory.

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