

Abstracts

Design of Mode Transducers

L. Solymar and C.C. Eaglesfield. "Design of Mode Transducers." 1960 Transactions on Microwave Theory and Techniques 8.1 (Jan. 1960 [T-MTT]): 61-65.

The propagation of the electromagnetic wave in a gradual transducer is discussed. It is shown that the incident mode and the geometry of the transducer determine the outgoing mode. Inverting this theorem, a method is suggested for the design of the transducer's surface for cases in which the desired modes in the uniform waveguides are given. The application of the method is illustrated in three examples.

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