

Abstracts

Field Profile in a Single-Mode Curved Dielectric Waveguide

T.N. Trinh and R. Mittra. "Field Profile in a Single-Mode Curved Dielectric Waveguide." 1981 MTT-S International Microwave Symposium Digest 81.1 (1981 [MWSYM]): 17-19.

An approximate and simple method for predicting the field profile in a curved dielectric waveguide is described. It is shown that the field can be approximated inside the dielectric guide by the Airy function of the first kind and that the field decay coefficient assumes an integral form outside the guide. Experimental verification of the theoretical results is included.

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