Abstracts

Transmission and Attenuation of the Dominant Mode in Uniformly Bent Circular Hollow Waveguides for the Infrared: Scalar Analysis

S.-I. Abe and M. Miyagi. "Transmission and Attenuation of the Dominant Mode in Uniformly Bent Circular Hollow Waveguides for the Infrared: Scalar Analysis." 1991 Transactions on Microwave Theory and Techniques 39.2 (Feb. 1991 [T-MTT]): 230-238.

We numerically evaluate electric field distributions, phase constants, and attenuation constants of the lowest eigenmode in the general class of uniformly bent circular hollow waveguides. The analysis is based on a scalar equation, and numerical results are compared with those of existing approximate theories. Numerically fitting curves of attenuation constants are also presented.

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