

Finite Curvature and Corrugations in Dielectric Ridge Waveguides

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Dielectric ridge waveguide is now widely used in passive and active integrated optics and it could find use in millimeter-wave circuits. Families of devices such as ring lasers and couplers require structures with bends of finite length and relatively high curvature. The paper presents a technique, based on the concept of local modes, which also takes into account the corrugations due to fabrication. Results are in good qualitative agreement with experimental values reported in the literature.

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