

Losses of Tapered Dielectric Slab Waveguides with Axial Variations in Index of Refraction

R. Scarmozzino, D.V. Podlesnik and R.M. Osgood, Jr.. "Losses of Tapered Dielectric Slab Waveguides with Axial Variations in Index of Refraction." 1990 Transactions on Microwave Theory and Techniques 38.2 (Feb. 1990 [T-MTT]): 141-147.

The effects of varying the index of refraction in the cladding along the length of a tapered dielectric waveguide are calculated using a bent normal mode analysis. It is found that in some cases the losses can be reduced by an order of magnitude, even for short tapers whose length is of the order of the guide dimensions.

 [Return to main document.](#)