Abstracts

A Method for Diminishing Total Transmission Losses in Curved Dielectric Optical Waveguides

M. Geshiro and S. Sawa. "A Method for Diminishing Total Transmission Losses in Curved Dielectric Optical Waveguides." 1981 Transactions on Microwave Theory and Techniques 29.11 (Nov. 1981 [T-MTT]): 1182-1187.

A practical method for diminishing total transmission losses in curved dielectric optical slab waveguides is proposed. Asymmetric structures are introduced into curved sections. It is found that there exists an optimum asymmetric structure for the curved section which makes the total transmission loss minimum. And it is also found that the characteristics of total transmission loss do not critically depend upon the asymmetry of waveguide structure, so that some displacement from the optimum structure does not increase the loss in an appreciable amount.

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