

Abstracts

Some Characteristics of Alternating Gradient Optical Transmission Lines

W.H. Steier. "Some Characteristics of Alternating Gradient Optical Transmission Lines." 1966 Transactions on Microwave Theory and Techniques 14.5 (May 1966 [T-MTT]): 228-233.

The effect of adding a negative lens between each pair of positive lenses of an optical transmission line is calculated. The negative lens reduces the ability of the transmission line to control the direction of the light beam. The changes in dominant mode spot size, allowed bending radius, critical bend periodicity, and sensitivity to random lateral lens displacements are computed for all ranges of lens spacings and focal lengths which are stable.

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