

Abstracts

Wave Propagation through Weakly Anisotropic Straight and Curved Rectangular Dielectric Optical Guides

*B.B. Chaudhuri. "Wave Propagation through Weakly Anisotropic Straight and Curved Rectangular Dielectric Optical Guides." 1980 *Transactions on Microwave Theory and Techniques* 28.3 (Mar. 1980 [T-MTT]): 231-234.*

Wave propagation through weakly anisotropic straight and curved dielectric rectangular guides is studied using a coupled mode approach. The propagation constant, thus found, can be computed very easily if Marcatili's approximate field expressions for an isotropic guide are used. The result for the uniaxial case can then be extended for the biaxial crystal to the first order of approximation.

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