Abstracts

Circularly Polarized Electric Field in Rectangular Waveguide (Short Papers)

F.E. Gardiol. "Circularly Polarized Electric Field in Rectangular Waveguide (Short Papers)." 1974 Transactions on Microwave Theory and Techniques 22.5 (May 1974 [T-MTT]): 563-565.

The electric field in a waveguide partially filled with a low-loss slab of dielectric in the H plane presents a circularly polarized component at the air-dielectric interface over a limited frequency range. This effect could be used to improve the performance of nonreciprocal devices utilizing the gyroelectric effect in magnetized semiconductors.

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