

Coupling Characteristics Between Dielectric Disk and Ring Located in an Eccentric Configuration

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Whispering Gallery (W.G.) mode coupling characteristics between a novel configuration of dielectric disk and ring waveguide, are analyzed and investigated. The theoretical results of coupling coefficients and field distributions are obtained by solving a mode-coupled equation which is derived from the Lorentz's reciprocity theorem and divergence theorem. Experimental result of field distribution is compared to the theoretical one, they agree with each other well.

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