

Mode Coupling Prediction in Whispering Gallery Dielectric Resonators Modes

P. Blondy, V. Madrangeas, D. Cros and P. Guillon. "Mode Coupling Prediction in Whispering Gallery Dielectric Resonators Modes." 1996 Microwave and Guided Wave Letters 6.6 (Jun. 1996 [MGWL]): 229-231.

This letter describes a new method to locate the frequency band in which two whispering gallery modes (WGM's) are likely to be coupled. It is explained why this phenomenon is observed in single-crystal anisotropic dielectric resonators. This method is validated by computations of the resonant frequencies and the electromagnetic field cartography of WGM computed by finite-element method (FEM) for a sapphire resonator and experiments.

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