Abstracts

Circular Polarization of the Magnetic Field in the WG Modes of Resonance of a Dielectric Disc at Microwave Frequencies

I. Longo, P. Guillon and D. Cros. "Circular Polarization of the Magnetic Field in the WG Modes of Resonance of a Dielectric Disc at Microwave Frequencies." 1993 Transactions on Microwave Theory and Techniques 41.1 (Jan. 1993 [T-MTT]): 117-122.

The circular polarization of the magnetic field of the Whispering-Gallery (WG) modes of resonance of a dielectric disc resonator has been tested in the evanescent-field region outside the dielectric materiaL Microwaves in the frequency range from 18 to 26.5 GHz (K-band) and the techniques of Electron Spin Resonance (ESR) have been used. The distribution of the electromagnetic fields was obtained with a finite element method and it was found in agreement with the experimental results.

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