

# Abstracts

## Whispering-Gallery Modes of Dielectric Structures - Applications to Millimeter Wave Bandstop Filters (1987 Vol. I [MWSYM])

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*X.H. Jiao, P. Guillon, L.A. Bermudez and P. Auxemery. "Whispering-Gallery Modes of Dielectric Structures - Applications to Millimeter Wave Bandstop Filters (1987 Vol. I [MWSYM])." 1987 MTT-S International Microwave Symposium Digest 87.1 (1987 Vol. I [MWSYM]): 367-370.*

The purpose of this paper is to show the feasibility of mm-wave resonators utilizing W.G. modes excited in planar and cylindrical dielectric structures. Measured resonant frequencies in Ka and W bands are reported. Their applications in mm-wave integrated circuits are also dealt with. For this, a bandstop filter, obtained by coupling two W.G. modes D.Rs to a dielectric image guide is presented at about 35 GHz.

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