

Abstracts

Resonant Modes in Waveguide Windows

M.P. Forrer and E.T. Jaynes. "Resonant Modes in Waveguide Windows." 1960 Transactions on Microwave Theory and Techniques 8.2 (Mar. 1960 [T-MTT]): 147-150.

Analysis and experimental verification of a class of resonant fields, called ghost-modes, occurring in waveguide dielectric windows are presented. Numerical solutions for a simple geometry are given through universal curves. Knowledge about ghost-modes has importance to designers of high-power windows. It also leads to a measuring technique for dielectric constants through a frequency measurement.

 [Return to main document.](#)