

# Abstracts

## Effect of a Modulated Source on a Multimode Cavity

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J.S. Hong. "Effect of a Modulated Source on a Multimode Cavity." 1994 *Microwave and Guided Wave Letters* 4.2 (Feb. 1994 [MGWL]): 43-44.

Based on a 3-D model the effect of a modulated source on a multimode cavity has been investigated. It turns out that the amplitude modulated (AM) and the phase modulated (PM) sources cannot perturb the field distribution. Only the frequency modulated (FM) source can achieve this goal. It is also found that the key factor governing the field perturbation does not lie in shifting the eigenfrequencies and the modal variables, but lies in varying the ratios of the modal variables.

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