

Abstracts

Harmonic Generation, Mixing and Detection of Millimeter and Submillimeter Waves Using Parametric or Tunnel Diodes (Abstract)

K.K.N. Chang. "Harmonic Generation, Mixing and Detection of Millimeter and Submillimeter Waves Using Parametric or Tunnel Diodes (Abstract)." 1963 PTGMTT National Symposium Program and Digest 63.1 (1963 [MWSYM]): 125-128.

A general discussion of harmonic generation, mixing and detection through use of parametric or tunnel diodes is given. The efficiency, noise factor and sensitivity of such devices are presented. In particular, the circuit design and its associated diode fabrication, together with recent experimental results at millimeter wave frequencies are described. Based on general considerations, similar experimental results can be anticipated in the submillimeter wave region.

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