

# Abstracts

## On the Harmonic Operation of Millimeterwave Gunn Diodes

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*W.H. Haydl. "On the Harmonic Operation of Millimeterwave Gunn Diodes." 1982 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 506-509.*

The behavior of GaAs Gunn diodes having epitaxial layer thicknesses of the order of 2  $\mu\text{m}$  has been investigated. A coaxial (radial disc) bias circuit provides a resonant circuit at the fundamental operating frequency of the diode (30-50 GHz). The circuit can be tuned over a wide frequency range by various means. The harmonic components have been measured up to 110 GHz.

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