

# Abstracts

## Performance of Avalanche Diode Oscillators with Large Leakage Current

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R.J. Gutmann and J.M. Borrego. "Performance of Avalanche Diode Oscillators with Large Leakage Current." 1974 S-MTT International Microwave Symposium Digest of Technical Papers 74.1 (1974 [MWSYM]): 306-308.

Experimental results of the RF performance of 500 milliwatt CW, X-band IMPATT diode oscillators and 30 watt pulsed, S-band TRAPATT diode oscillators with large leakage current are presented. The leakage current was varied from 10 microamps to 10 milliamps by varying the dose rate of high energy electrons from a linear accelerator. Correlation obtained with device models indicate that the principal effects of leakage current on avalanche diode oscillator characteristics have been properly identified.

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