

Abstracts

Theoretical and Experimental Study of the Quenched-Domain Mode Gunn-Effect Oscillator

D.D. Khandelwal and W.R. Curtice. "Theoretical and Experimental Study of the Quenched-Domain Mode Gunn-Effect Oscillator." 1969 G-MTT International Microwave Symposium Digest of Technical Papers 69.1 (1969 [MWSYM]): 170-175.

A general large-signal analysis of the quenched-domain mode of Gunn-effect devices has been developed which is applicable to any device without extensive device measurements. Some applications of such an analysis are demonstrated and others are being investigated. The phenomenological model includes such effects as domain formation, domain quenching, domain behavior in the presence of an RF voltage, displacement currents, the voltage dependence of domain width and others.

[Return to main document.](#)

Click on title for a complete paper.