

# Abstracts

## Analysis of Waveguide IMPATT Oscillator Circuits

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*B.D. Bates and P.J. Khan. "Analysis of Waveguide IMPATT Oscillator Circuits." 1981 MTT-S International Microwave Symposium Digest 81.1 (1981 [MWSYM]): 232-234.*

The Kurokawa oscillator theory is applied to IMPATT oscillator circuits using an accurate non-linear diode equivalent circuit and broadband circuit representations of both rectangular and coaxial waveguiding structures. The analysis considers the influence of harmonic components in the oscillator output.

 [Return to main document.](#)