Abstracts

Nonlinear and Large-Signal Characteristics of Millimeter-Wave IMPATT Amplifiers

H.J. Kuno and D.L. English. "Nonlinear and Large-Signal Characteristics of Millimeter-Wave IMPATT Amplifiers." 1973 Transactions on Microwave Theory and Techniques 21.11 (Nov. 1973 [T-MTT] (Special Issue on Solid-State Microwave Power Amplifiers)): 703-706.

Experimental results obtained with millimeter-wave IMPATT amplifiers are presented. Nonlinear and large-signal characteristics of stable IMPATT amplifiers and injection-locked IMPATT oscillators are described. Amplifier circuit configuration, diode characteristics, and measured effects of bias current, temperature, and large-signal level on gain, bandwidth, power saturation, and phase-delay characteristics are discussed in detail.

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