

Abstracts

Up-Conversion in IMPATT Amplifiers

R.K. Gupta and C.G. Englefield. "Up-Conversion in IMPATT Amplifiers." 1978 Transactions on Microwave Theory and Techniques 26.1 (Jan. 1978 [T-MTT]): 28-30.

A simple technique has been presented to determine the up-conversion characteristics of IMPATT-diode amplifiers. The method uses the admittance characteristics of the device and the circuit of the amplifier. Theoretical results are given for a typical example and a comparison is made with experimental results obtained for actual amplifiers. Qualitative agreement is obtained.

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