

# Abstracts

## TWTA Linearize Using Dual-Gate MESFET

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*M. Kumar and J.C. Whartenby. "TWTA Linearize Using Dual-Gate MESFET." 1984 MTT-S International Microwave Symposium Digest 84.1 (1984 [MWSYM]): 314-315.*

This paper presents a new predistortion technique using GaAs dual-gate MESFETs to linearize the microwave power amplifiers. The results of a linearized 16-watt traveling wave tube amplifier at 12 GHz are presented. The linearize affects a 12 dB reduction in this third-order intermodulation products at 2.5 dB input power back off.

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