

Non Linear Equivalent Circuit for Broadband GaAs MESFET Power Amplifier Design

R. Soares, M. Goudelis, B. Lorigou and E. de Los Reyes Devo. "Non Linear Equivalent Circuit for Broadband GaAs MESFET Power Amplifier Design." 1982 MTT-S International Microwave Symposium Digest 82.1 (1982 [MWSYM]): 63-65.

A non-linear equivalent circuit is developed to model the fundamental frequency r.f. performance of a $1\mu\text{m} \times 800\mu\text{m}$ GaAs MESFET, based on two-port large-signal amplifier measurements between 6-8 GHz. Potentially large-band, the circuit accurately predicts in-band AM/PM conversion and saturation of the device with arbitrary terminal loads.

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