

# Abstracts

## Generalized Kushner analysis of RF power amplifiers

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*P.A. Blakey and E.M. Johnson. "Generalized Kushner analysis of RF power amplifiers." 1999 MTT-S International Microwave Symposium Digest 99.2 (1999 Vol. II [MWSYM]): 521-524 vol.2.*

A new technique that accurately predicts the output power and drain efficiency of FET power amplifiers is described. This new technique uses a generalization of Kushner's amplifier analysis method together with measured pulsed I-V data. The technique can be used to replace or supplement load-pull measurements that are performed during technology development and circuit design. Excellent agreement with experimental load-pull measurements is demonstrated for several different transistor technologies over a broad range of load resistances.

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