

Abstracts

Experimental Performance of an Adaptive Digital Linearized Power Amplifier

A.S. Wright and W.G. Durtler. "Experimental Performance of an Adaptive Digital Linearized Power Amplifier." 1992 MTT-S International Microwave Symposium Digest 92.2 (1992 Vol. II [MWSYM]): 1105-1108.

High power amplification of linear modulation schemes which exhibit fluctuating envelopes, invariably leads to the generation of distortion and intermodulation products. Recent theoretical work has suggested that a complex gain predistorter may be employed to linearize a non-linear power amplifier. This paper presents experimental results demonstrating that a reduction in out-of-band spectral emissions in excess of 20 dB may be achieved by employing digital feedback and a complex gain predistorter.

[Return to main document.](#)