

Experimental Performance of an Adaptive Digital Linearized Power Amplifier

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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.](#)