

Abstracts

Digital Implementations of Adaptive Feedforward Amplifier Linearization Techniques

G. Zhao, F.M. Ghannouchi, F. Beauregard and A.B. Kouki. "Digital Implementations of Adaptive Feedforward Amplifier Linearization Techniques." 1996 MTT-S International Microwave Symposium Digest 96.2 (1996 Vol. II [MWSYM]): 543-546.

Feedforward power amplifier linearizes using complete digital adaptive control algorithms are proposed. Two different versions, one using frequency domain cancellation and the other using a power gradient approach, are developed. Simulation results, showing carrier signal cancellation in the first loop and distortion cancellation in the second loop for both methods, are presented. This study demonstrates that digital adaptive implementation of feedforward linearization is indeed a promising approach.

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