

Digital Implementations of Adaptive Feedforward Amplifier Linearization Techniques

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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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