

# Abstracts

## Analysis and Design of Microwave Linearized Amplifiers Using Active Feedback

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*E. Ballesteros, F. Perez and J. Perez. "Analysis and Design of Microwave Linearized Amplifiers Using Active Feedback." 1988 Transactions on Microwave Theory and Techniques 36.3 (Mar. 1988 [T-MTT]): 499-504.*

Intermodulation distortion of active feedback amplifier systems has been analyzed using a simple method. Starting from the amplitude characteristic of both amplifiers -- the main and the auxiliary -- it is possible to calculate the intermodulation distortion of the complete system. Analytical results show that third-order intermodulation products can be considerably reduced when an active feedback with correct amplitude and phase is employed. Experimental measurements have been made on a one-stage bipolar transistor amplifier that confirm the theoretical analysis.

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