

Adaptive nulling loop control for 1.7-GHz feedforward linearization systems

E.E. Eid and F.M. Ghannouchi. "Adaptive nulling loop control for 1.7-GHz feedforward linearization systems." 1997 Transactions on Microwave Theory and Techniques 45.1 (Jan. 1997 [T-MTT]): 83-86.

An adaptive analog control system is introduced for the nulling loop (first loop) of a 1.7-GHz feedforward linearization system. The sensitivity to temperature and frequency variations is experimentally shown for a conventional feedforward system, leading to the need for an adaptive control system. Two error signals based on detected power levels are introduced and used to control the nulling loop vector modulator to ensure cancellation of the main signal. Finally, the experimental performance of this system is presented.

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