

# Abstracts

## The novel programmable RF predistortion linearizer

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*Jia Sun and M.Y.W. Chia. "The novel programmable RF predistortion linearizer." 2001 MTT-S International Microwave Symposium Digest 01.2 (2001 Vol. II [MWSYM]): 809-812 vol.2.*

A novel programmable RF predistortion linearizer is developed in this paper. The key concept of this novel circuit is the distortion compensation performance can be easily optimized at different input power and different operation frequency by controlling the BJT bias  $V_{\text{sub } b/}$  and varactor voltage  $V_{\text{sub } \text{vac}/}$ . There is a 9 dBc improvement in  $\text{IM}_{\text{sub } 3/}$  and a 6 dBc improvement in ACPR in the prototype for the novel programmable RF predistortion linearizer for IS-95 application.

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