

Abstracts

VCO linearisation by frequency feedback

J. Gustrau, F. Fiechtner and M. Hoffmann. "VCO linearisation by frequency feedback." 1998 Radio Frequency Integrated Circuits (RFIC) Symposium 98. (1998 [RFIC]): 135-138.

We demonstrate, how a voltage controlled oscillator is linearised by frequency feedback independently of the VCO-characteristic. The VCO is replaced by a controlled frequency locked loop. Hereby, the VCO characteristic is substituted by the inverse function of the frequency detector characteristic, which, in our case, is linear to a great extent. A 70 MHz oscillator was built to verify the principle.

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