

Abstracts

Numerical Optimization of Microwave Oscillators and VCOs

V. Rizzoli, A. Costanzo and C. Cecchetti. "Numerical Optimization of Microwave Oscillators and VCOs." 1993 MTT-S International Microwave Symposium Digest 93.2 (1993 Vol. II [MWSYM]): 629-632.

A new harmonic-balance optimization technique for single-frequency oscillators and broadband VCOs is introduced. The objective function is evaluated by a Newton-iteration based HB analysis, and an exact algorithm for the computation of the gradient is implemented. The optimizable performance in the VCO case includes the linearity of the tuning characteristic.

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