

Abstracts

A new approach to nonlinear analysis of noise behavior of synchronized oscillators and analog-frequency dividers

J.C. Nallatamby, M. Prigent, J.C. Sarkissian, R. Quere and J. Obregon. "A new approach to nonlinear analysis of noise behavior of synchronized oscillators and analog-frequency dividers." 1998 Transactions on Microwave Theory and Techniques 46.8 (Aug. 1998 [T-MTT]): 1168-1171.

An original theory of phase noise in synchronized oscillators is outlined through the phase-locked loop (PLL) approach. The phase-noise spectrum obtained first by the analytical PLL theory and then by a simulator have been compared with very good accuracy. This new approach permits the best understanding of noise conversion in synchronized devices.

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