

Abstracts

Nonlinear Model and Measurement Method for Microwave Mixers

G. Vandersteen and A. Vander Vorst. "Nonlinear Model and Measurement Method for Microwave Mixers." 1993 Microwave and Guided Wave Letters 3.5 (May 1993 [MGWL]): 133-135.

A novel approach to characterize and measure the static and dynamic nonlinear properties of a microwave mixer is described. It is based on the use of Generalized Volterra Series. The modeling capabilities of this novel approach are illustrated by simulation results of nonlinear microwave devices, as well as by measurement. Furthermore, a new measurement setup has been developed. It uses a sampling oscilloscope. It yields both the amplitude and phase of the different spectral components of the measured signal.

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