Abstracts

A microwave multisine with known phase for the calibration of narrowbanded nonlinear vectorial network analyzer measurements

A. Barel and Y. Rolain. "A microwave multisine with known phase for the calibration of narrowbanded nonlinear vectorial network analyzer measurements." 1998 MTT-S International Microwave Symposium Digest 98.3 (1998 Vol. III [MWSYM]): 1499-1502.

A method is proposed to generate an RF multi-tone (up to 10 GHz) calibration signal with a very narrow harmonic spacing (down to 100 KHz) and a known phase relation between tones. This signal is requested for the phase calibration of a nonlinear vectorial network analyzer on a dense grid, as occurs when modulated signals are measured. The phase relation is traceable to a nose-to-nose calibrated microwave sampling oscilloscope.

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