Abstracts

A controllable phase coherent modulated RF signal for use with microwave network analyzer measurements

P. Vael and Y. Rolain. "A controllable phase coherent modulated RF signal for use with microwave network analyzer measurements." 1999 MTT-S International Microwave Symposium Digest 99.4 (1999 Vol. IV [MWSYM]): 1655-1658 vol.4.

A method is proposed to build a phase coherent modulated RF signal, that can be used as excitation signal for microwave network analyzer measurements. A software feedback technique is used to correct the amplitude and phase distortions introduced in the signal path to the input port of the device under test (DUT). This technique allows one to create a modulated excitation signal with a known spectrum (amplitude and phase) of the modulation signal. Such a "controlled modulation" signal is required to test microwave components under pulsed or modulated (non-continuous wave excitation) test conditions.

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