Abstracts

Calibration of short range FMCW-radars with network analyzer calibration techniques

T. Hauschild and R. Knochel. "Calibration of short range FMCW-radars with network analyzer calibration techniques." 1998 MTT-S International Microwave Symposium Digest 98.2 (1998 Vol. II [MWSYM]): 969-972.

FMCW-radars can be used as sensors in the short range, in order to locate and determine reflections of targets by amplitude and phase. Such sensors have to be accurate, fast and inexpensive. The paper describes how these goals can be reached by applying a single channel system and establishing complex measurement capability. This is done by using the Hilbert transform and by removing the time domain system error using techniques similar to those applied for vector network analyzers, Details of the system implementation are given and results are compared to network analyzer measurements.

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