

Abstracts

Effects of nonlinear diode junction capacitance on the nose-to-nose calibration

K.A. Remley, D.F. Williams, D.C. DeGroot, J. Verspecht and J. Kerley. "Effects of nonlinear diode junction capacitance on the nose-to-nose calibration." 2001 Microwave and Wireless Components Letters 11.5 (May 2001 [MWCL]): 196-198.

We examine the effects of nonlinear diode junction capacitance on the fundamental premise of the nose-to-nose calibration, that the kickout pulse is identical in shape and duration to the impulse response of a sampling circuit. We offer a physical explanation for the error introduced by the nonlinear junction capacitance using small-signal diode equations.

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