

Abstracts

New system-level simulation of noise spectra distortion in FM-CW autonomous cruise control radar

A. Laloue, J.-C. Nallatamby, M. Camiade, M. Prigent and J. Obregon. "New system-level simulation of noise spectra distortion in FM-CW autonomous cruise control radar." 2001 MTT-S International Microwave Symposium Digest 01.1 (2001 Vol. I [MWSYM]): 459-462 vol.1.

The design of complex MMICs such as ACC car radar involves the development of efficient and fast simulation techniques to predict the characteristics of the circuits. Their noise behavior simulation is one of the main drawback due to its complexity and large computation time. We propose in this paper, a new method based on a circuit envelope to simulate the noise spectra conversion of a signal passing through a MMIC. The efficiency of the proposed method is shown with the comparison between simulation and measures of the AM/PM conversion of a millimeter wave transmitter.

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