Abstracts

Simulation of RF circuits driven by modulated signals without bandwidth constraints

J.C. Pedro and N.B. Carvalho. "Simulation of RF circuits driven by modulated signals without bandwidth constraints." 2002 MTT-S International Microwave Symposium Digest 02.3 (2002 Vol. III [MWSYM]): 2173-2176 vol.3.

A new nonlinear analysis technique of RF circuits subject to modulated signals is discussed. As the envelope and carrier are uncorrelated, the circuit is modeled by a multi-rate partial differential equation. The carrier response is then simulated with harmonic-balance for each envelope time-step, without imposing any restrictions to signal bandwidth.

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