Abstracts

FFT windows for intermodulation analysis of microwave circuits from transient simulation

The use of time-domain window functions is investigated for intermodulation analysis of two-tone transient simulations. Window selection is dependent on whether fast Fourier transform (FFT) dynamic range is noise limited by interpolation noise or by window roll-off characteristics. Two tone transient and harmonic balance simulations of a MESFET amplifier show excellent agreement over a wide dynamic range.

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