Abstracts

An Optimal Equiripple Representation of Broadband Excitations for Use with Harmonic Balance Simulators

In this paper we describe an algorithmic technique which approximates broadband excitation waveforms for use within harmonic balance simulators. The approach offers an equiripple approximation to the desired waveform, and allows the control of approximation errors in critical waveform time bands, as is often desired in a typical circuit simulation. This flexibility is not inherent in the windowing techniques currently used within harmonic balance simulators. An example is given which illustrates the advantages of the proposed technique and compares it to present windowing methods.

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