

Structured Electronic Design

Phantom Zero Compensation
Interaction with other Design Aspects

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Interaction with other performance aspects

Interaction with other performance aspects and cost factors, such as:

- Noise performance
- Accuracy
- Linearity
- Power losses
- Energy storage

Low if:

The impedances inserted in series or in parallel with the signal path can be ignored in the frequency range of interest.

This is always the case for impedances that establish a phantom zero for frequency compensation because such zeros are located at the edges of the frequency band of interest.

Increase of out-of band loop gain beneficial to out-of-band linearity