

Structured Electronic Design

Two-step design of negative feedback amplifiers

Two-step design method

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Feedback amplifier comprises:

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Feedback amplifier comprises:

Feedback network(s)

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Fixes ideal value(s) of the amplifier's
transmission-1 matrix parameter(s)

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1. Design of feedback network(s) using nullors as controller(s)

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Budgets for processing errors should be split:

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Performance limitations affected by the feedback network

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Noise performance of the amplifier

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Passive feedback networks enlarge contribution of controller noise to total amplifier noise

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Contribution controller performance limitations to those of amplifier

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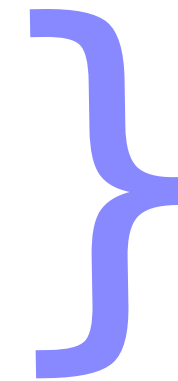
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