Structured Electronic Design Wrap-up Function and Requirements

Information processing task

Information processing task

the signal source at the load

- accurate reproduction of information from

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Characteristic property

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- accurate reproduction of information from the signal source at the load
- available power gain exceeds unity

Information processing task

Characteristic property Amplifier types

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- accurate reproduction of information from the signal source at the load
- available power gain exceeds unity
- nine unilateral amplifier types

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Characteristic property Amplifier types

- accurate reproduction of information from the signal source at the load
- available power gain exceeds unity
- nine unilateral amplifier types
- five port configuration versions for each type

Information processing task

Characteristic property Amplifier types

Modeling of ideal behavior

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- transfer gain, input impedance, output impedance

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- transfer gain, input impedance, output impedance - transmission-1 matrix parameters A, B, C and D

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- noise addition

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- noise addition
- bandwidth limitation

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Performance limitations

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Cost factors

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- accurate reproduction of information from the signal source at the load
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