

Analog circuits



Component

École Nationale
Supérieure
d'Électrotechnique
d'Électronique
d'Informatique
d'Hydraulique
et des
Télécommunications

In brief

- > **AmetyS Code:** N5AE04D
- > **Open to exchange students:** No

Presentation

Objectives

- Know how to choose the basic structures for designing a multi-stage amplifier circuit using discrete components based on their intrinsic properties.
 - Be able to analyze the basic structures that make up a multi-transistor circuit that has already been designed.
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Description

Properties of basic structures (common emitter transistor, common base, common collector): DC bias (static load line), AC amplification (dynamic load line, calculation of voltage gain, influence of the internal resistance of the AC generator on this gain, calculation of input and output impedances).

Concept of active load.