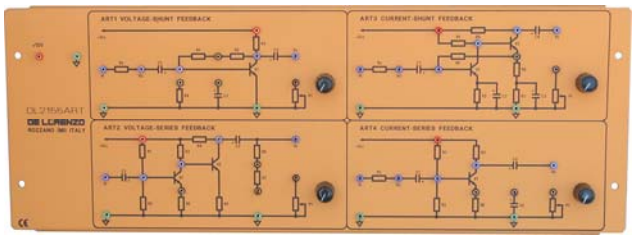
ELECTRONICS

BJT Feedback amplifiers



DL 2155ART

The board is designed to afford the problems connected to the introduction of negative feedback into an amplifier, and to its influence on the different parameters: amplification, bandwidth, input and output resistances, noise.
The different feedback configurations are theoretically analyzed and experimentally checked: series voltage, parallel voltage, series current, parallel current.
Single stage and multistage amplifiers are used, the latter in direct coupling.
The board is supplied complete with a set of stackable, plug-in cables of suitable lengths and colours and with a training manual.
Power supply: + 15 Vdc, 750 mA

Experiments

- Analysis and study of an amplifier with series or parallel voltage feedback and with series or parallel current feedback
- Analysis and study of multistage amplifiers with direct coupling
- Influence of feedback in the amplifier: study of the amplifier with connected/unconnected feedback

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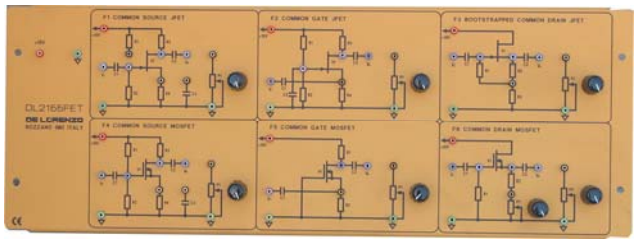
FET-MOSFET



DL 2155FET

The board provides a full support concerning the elementary amplification configurations. It affords the problems related to the use of FET and MOSFET in the three basic configurations: common source, gate and drain. Firstly, the bias and working point stabilization problems are considered. Then, the typical features of the configurations are analyzed: voltage gain, input and output resistances.
The board is supplied complete with a set of stackable, plug-in cables of suitable lengths and colours and with a training manual.
Power supply: + 15 Vdc, 750 mA

Experiments

- FET and MOSFET bias in the different configurations
- Measurement of typical configuration parameters
- Bootstrap effect in common drain configuration