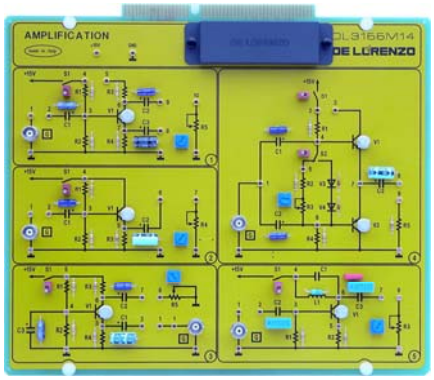
TIME ELECTRONIC BOARDS

AMPLIFICATION

AMPLIFICATION



DL 3155M14

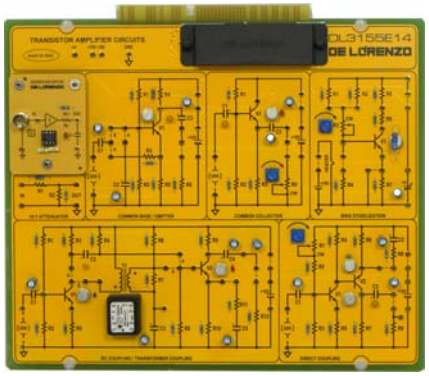
Theoretical topics:

- Linear amplification of current, voltage and power
- BJT amplifiers: EC, CC and BC configurations
- Thermal stability of a linear amplifier
- Static and dynamic load line
- Intermediate stage – final stage pre-amplifiers
- Power amplifiers in class A
- Power amplifiers in class B
- Power amplifiers in class C
- Fault simulation

Circuit blocks:

- The common emitter amplifier
- The common collector amplifier
- The common base amplifier
- The push-pull power amplifier in class B
- The power amplifier tuned in class C

TRANSISTOR AMPLIFIER CIRCUITS



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Theoretical topics:

- Idea of linear amplification of current, voltage and power
- Common base configuration: circuit and behaviour
- Common emitter configuration: circuit and behaviour
- Common collector configuration (emitter follower): circuit and behaviour
- Circuits for the control of alternate current motors
- Thermal and bias stabilization of a linear amplifier
- Static and dynamic load lines
- Multi-stage amplifiers
- RC coupled amplifiers
- Transformer coupled amplifiers
- Direct-coupled amplifiers
- Fault simulation

Circuit blocks:

- Attenuator
- Common Base / Emitter
- Common Collector
- Bias Stabilization
- RC Coupling / Transformer Coupling
- Direct Coupling