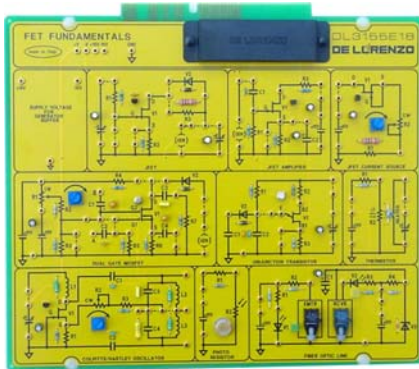


TIME ELECTRONIC BOARDS



FET FUNDAMENTALS



DL 3155E18

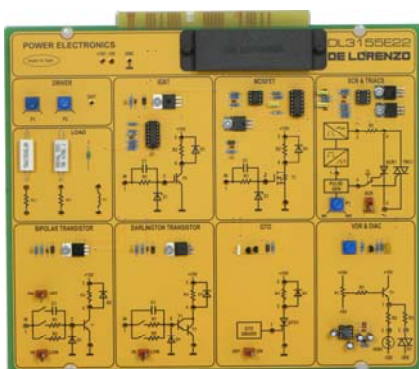
Theoretical topics:

- Junction FET
- JFET operating characteristics
- The effect of gate bias on pinch-off
- JFET dynamic characteristic curves
- JFET amplifier fundamentals
- JFET amplifier dc operation
- JFET amplifier ac operation
- JFET used as current sources
- Dual Gate MOSFET
- MOSFET fundamentals and modes of operation
- MOSFET voltage amplifier
- Unijunction transistors fundamentals
- UJT operating characteristics
- UJT waveform generation
- Hartley and Colpitts oscillators fundamentals
- Hartley oscillator operation
- Colpitts oscillator operation
- Transducers fundamentals
- Thermistor operation
- Photo resistor operation
- Fibre optic light transfer
- Fault simulation

Circuit blocks:

- JFET
- JFET Amplifier
- JFET Current Source
- Dual Gate MOSFET
- Unijunction Transistor
- Thermistor
- Colpitts / Hartley Oscillator
- Photo resistor
- Fibre Optic Link

POWER ELECTRONICS



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Theoretical topics:

- Structure of the bipolar transistor
- The Darlington transistor
- The MOSFET
- The IGBT
- The SCR and the TRIAC
- The GTO thyristor
- Operation with resistive load
- Operation with inductive load
- The VDR and the DIAC
- Fault simulation

Circuit blocks:

- Bipolar transistor
- IGBT
- MOSFET
- SCR & TRIACS
- Darlington transistor
- GTO
- VDR & DIAC
- Driver