Semi-Conductors, Solid State Devices, and Transistor Circuits are just some of the terms used to describe analogue circuit courses. The E & L-Nida Analogue Circuits courseware is one of the most comprehensive analogue teaching packages on the market today. From the introduction of diodes to the complex principles of operational amplifiers, the modular design of E & L-Nida’s Analogue Circuits courseware provides just the right level of analogue electronics education to meet your programme needs.

The E & L-Nida Analogue Circuits courseware is provided as computer based instruction which is ideal for classroom or distance learning environments. E & L-Nida Analogue Circuits courseware provides students with theoretical concepts that are immediately reinforced by experiments on real-world circuitry. In-depth topics of transistor circuits, trigger devices, pulse circuits, amplifiers, oscillators, power supplies, and RF electronics are all part of the extensive E & L-Nida Analogue Circuits course.
The E & L-Nida analogue circuits courseware is designed in a computer based format to provide your students with a comprehensive, interactive course that makes learning about semi-conductors and discrete components interesting. The courseware provides experiments and troubleshooting scenarios that align with the E & L-Nida Model 1403 (Series) of analogue circuits experiment board sets. The board sets support different levels of analogue experiments from basic level to University level. For determining which board set is right for your analogue circuits course, refer to the E & L-Nida CAI course chart.

Topics

Diodes & Diode Circuits
- Introduction to Diodes, Junction Diodes
- Diode Limiters, Diode Clamps, Vacuum Tubes

Transistor Circuits
- Introduction to Transistors, Transistor Operation
- Common Emitter, Collector, & Base Amplifiers

Power Supplies
- Introduction to Diode Rectifiers, Bridge Rectifiers
- Full & Half Wave Rectifiers, Zener Diodes
- Voltage Regulator Operation & Troubleshooting
- IC Regulator & Voltage Doubler Operation

Transistor Amplifiers
- Multistage Transistor & RC Coupled Amplifiers
- Push-Pull, FET, & MOSFET Amplifiers
- Amplifier Operation & Troubleshooting

Transistor Oscillators
- Sine Wave, Non-Sine Wave, & Blocking Oscillators
- Hartley, Colpitts & RC Phase Shift Oscillators
- Crystal Controlled Oscillators, Sawtooth Generators

Transistor Pulse Circuits
- Astable, Monostable, & Bistable Multivibrators
- Schmitt Trigger Operation & Troubleshooting

Application Circuits
- Trigger Devices, Four-Layer Diodes
- SCR Trigger & Power Circuits, Triacs & Diacs
- Programmable Unijunction Transistors

Operational Amplifiers
- Operational Amplifier Operation & Troubleshooting
- RF Electronics
- AM Receiver Operation & Troubleshooting

Supporting Hardware

- Model 130E Test Console
- Model TD2000 Tec Dec

- Model 4050 Test Instrument Module
- Model 140 (Series) Analogue Circuits Experiment Boards Set

E & L-NIDA
Aerial Road, Llay, Wrexham, LL12 0TU, UK.
Tel: 01978 853920 Fax: 01978 854564
info@eandl-nida.com www.eandl-nida.com

Cristiani SRL - Tecnologie e soluzioni per la Scuola
Via Allee 39
27049 STRADELLA (PV) - Italy
Tel: 0385 42975, 42192
cristiani@cristianisrl.it www.cristianisrl.it

Fax: 0385 240077