

Basic Circuit Applications



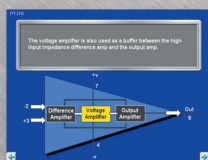
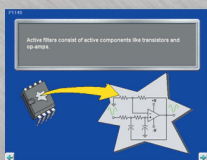
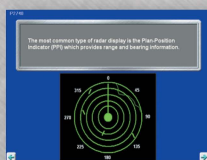
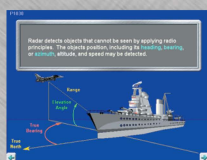
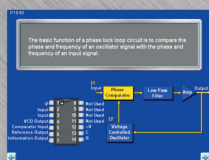
Courses That Shore Up Your Electronics

The E & L-Nida Basic Circuit Applications courseware is designed to provide advanced knowledge and enhanced skills training in key areas of electronics. Lessons in Phase-Locked Loop, Regulated Power Supplies, Back-Up Power Supplies, Electromagnetics, Optoelectronics, Operational Amplifiers, and Search Radar will give your students an extra edge in preparing for advanced courses. For your industrial customers, E & L-Nida Basic Circuit Applications courseware is perfect

for those "just in time" training programmes you are always asked to produce. The convenience of an E & L-Nida pre-developed course allows you to be proactive in the industrial training market by giving you the ability to instantly provide short courses exactly when needed. Whether you are preparing students or training for industry, E & L-Nida Basic Circuit Applications courseware is there to help with the foundations in electronics training programmes.

E & L-Nida Basic Circuit Applications

The E & L-Nida Basic Circuit Applications courseware is designed in hardcopy text and computer based format to provide you the choice of traditional classroom, electronic classroom, or distance learning delivery. The courseware provides experiments and troubleshooting scenarios that align with associated E & L-Nida experiment board sets. Each application-specific board set supports its course with practical hands-on training that reinforces the concepts and principles learned in theory. Whether you teach one application or all, each E & L-Nida Basic Circuit Applications course is completely compatible with the E & L-Nida 130E Test Console for added flexibility and cost savings.



Topics

Phase-Locked Loop

Phase-Locked Loop Theory & Operation
Voltage Controlled Oscillators, Phase Detectors
Frequency Multipliers/Dividers, PLL Experiments

Optoelectronics

IR Transmitters, IR Receivers
Photoelectric Transducers
Optoelectronics Experiments

Search Radar

RADAR Theory & Operation
RADAR Simulation Assembly Experiments

Regulated Power Supplies

Current Regulators, Voltage Regulators, Loads
Regulated Power Supply Experiments

Filters

High-Pass, Low-Pass, & Bandpass Filters
Band Reject, Combination, & Notch Filters
Filter Experiments

Operational Amplifiers

Linear, Arithmetic, & Wave Shaping Op Amps
Operational Amplifier Operation
Operational Amplifier Experiments

Back-Up Power Supplies

Back-Up Power Supply Theory & Operation
Back-Up Power Supply Experiments

Electromagnetics

Laws of Magnetism, Magnetic Poles, Flux Lines
Permanent Magnets, Electromagnets

Supporting Hardware

- Model 130E Test Console
- Model 1411 Phased-Locked Loop Boards Set
- Model 1414 Optoelectronics Boards Set
- Model 1415 Search RADAR Boards Set

- Model 1418 Filters Boards Set
- Model 1419 Operational Amplifiers Boards Set
- Model 1420 Back-Up Power Supply Boards Set
- Model 1435 Electromagnetic Boards Set

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