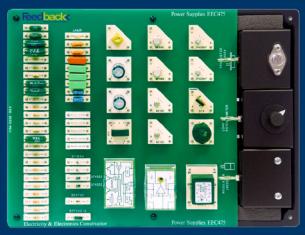
EEC470 SERIES
Self construction trainers

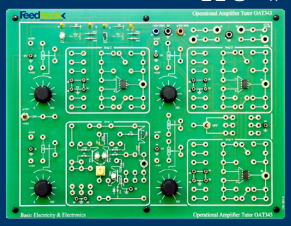
EEC 476

The EEC 476 for use with the EEC470 deck covers a wide range of power related subjects, dealing with semiconductor device characteristics, theory of operation and a wide range of power related applications.



EEC 475

The EEC 475 is used in conjunction with the EEC470 deck to provide a course of study covering a variety of different types of Power Supply. The hardware comprises a component storage board containing an assort-



OAT343

This component level board features four operational amplifier circuits - one of these circuits is constructed completely with discrete components, enabling detailed investigations to be carried out on the circuit operation. 12-910 covers the curriculum for the OAT343

Electronic Control EEC476

- Characteristics of the MOSFET, SCR, TRIAC and UJT
- Zener diode stabilizer characteristics
- Phase angle control
- Frequency to voltage conversion
- Electronic Tachogenerator calibration
- Speed-torque characteristic
- Pulse Width Modulation Control of a DC Motor

Power Supply Design EEC475

- Rectification
- Capacitive filters
- Voltage doublers
- Simple voltage stabilisers
- Circuit protection
- Variable dc supplies
- Integrated circuit voltage regulator
- Inverters and Converters; Switch-mode regulator

Subject Areas OAT343

- Op-Amp Feedback Requirements Input Offset Voltage
- Slew Rate
- Frequency Response
- Common Mode Rejection Ratio
- Operational Amplifier Characteristics
- Inverting and Non-Inverting Modes
- Open-loop Voltage Gain
- CMRR
- Sign Changer or Inverter
- Scale Changer
- Summing Amplifier
- dc Voltage Follower
- Differential dc Amplifier
- Analogue Integration and Differentiation
- Linear and Non-Linear Oscillators

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