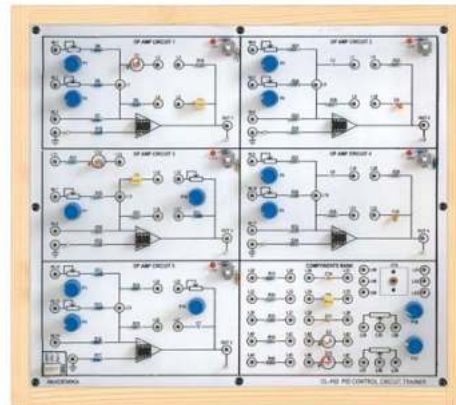
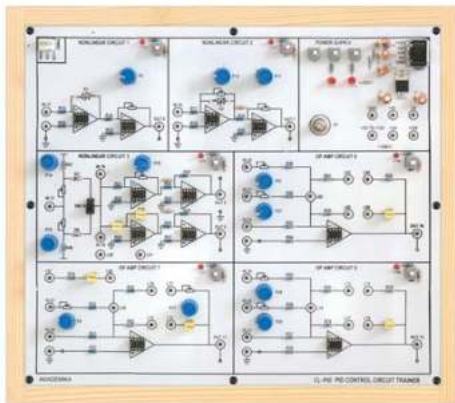


CL-PID

OP AMP Application Trainer



FEATURES

- Flexible and modular design
- Supports non-linear unit and operational amplifier unit
- Supports up to 9 different experiments
- On board capacitor and resistor bank
- Includes user manual with comprehensive experimental details

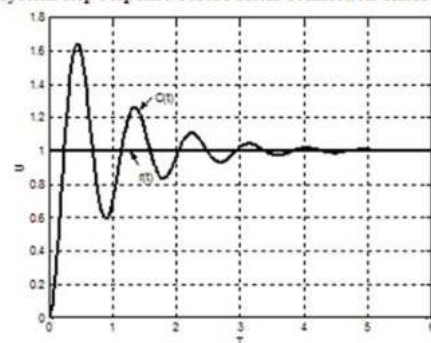
SPECIFICATIONS

- Power supply : +5V/1A, +12V/1A, -12V/0.5A, -5V/0.5A and GND.
- Onboard variable DC power supply (-12V to +12V).
- Nonlinear unit includes three groups of different non-linear amplifiers
- 8 operational amplifier unit and onboard capacitor and resistor bank.

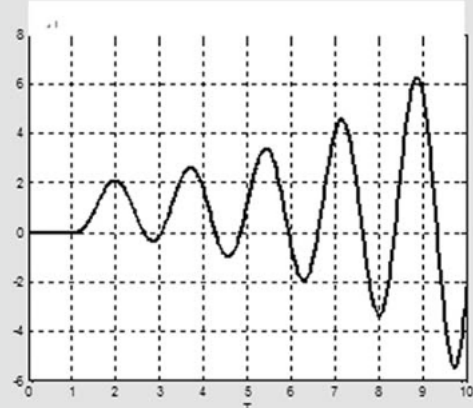
EXPERIMENTS

- Control system simulation of typical links
- Study of second order transient response
- Study of third order transient response
- Frequency characteristics of typical link in the test experiment
- Study of dynamic PID controller
- Study of linear control system calibration
- A typical simulation of non-linear behavior
- Pole placement state feedback control simulation
- Phase plane analysis of non-linear system.

system step response before serial connection calibration



Step response of third order system (Stable)



Step response of third order system (Instable)