Nuevas tecnologías Equipo Electrónico Automatización y Robótica Sensores Fotoeléctricos Variadores



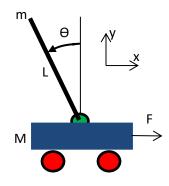
New technologies Electronic Equipment Automation & Robotics Photoelectric Sensor Drivers

Inverted Pendulum
IP-01



The inverted pendulum is an excellent lab practice for those interested in control, systems, mechanics, process, electronics, mechatronics and robotics. This is a very fundamental application for robotics to understand among other concepts, the equilibrium concept.

The pendulum is one of the typical applications in control theory. Despite it's simple appearance, its importance relies on the fact that control algorithms can be numerous and complex.





For human begins it is relatively easy to balance a sweep on the finger's tip. Our brain coordinates the movement of the hand with the needed force and direction to avoid the sweep yo fall or to lose its equilibrium condition.

When having autonomous machines, this application becomes very complex, since it requires to have a control system to emulate in quality and speed the human brain. The target remains to be the total equilibrium of a mobile stick.

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Application

Robots equilibrium



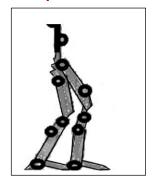
Satelict positioning



Vehicles



Biped Robots



Mechatronic



Hoist



Technical Features

Dimensions: 120x 35x35 cm.

Weight: 10 Kg. Speed: 15cm/s.

Motor type: Stepper y DC. **Feedback electric:** Encoder.

Control: Open to use any Microcontroller, PLC, PC or DAQ

board..

Control type: Stand Alone, PC. **Software:** Matlab and simulink (interface required), any other or

our PTS F1616.



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More realistic lab practices

Others Products

- Climate chamber Fitotrón.
- Algae Biofuel Pilot Plant.
- Mini-Plant for Malt/Beer/Soda production.
- Inverted Pendulum.
- Speed, Position and Generation plant.
- PLC trainer (Generic, AB, Siemens, e.t.c.).
- Solar heating system.
- Hydrogen cells trainer.
- Solar and Eolic energy trainer.
- Water supply plant.
- Motor-generator plant.
- Oscilloscopes.
- SCADA.
- Others didactic processes (in preparation)
- Motor-generator group.
- Frequency drives.
- Step and servomotors.
- SCADA.