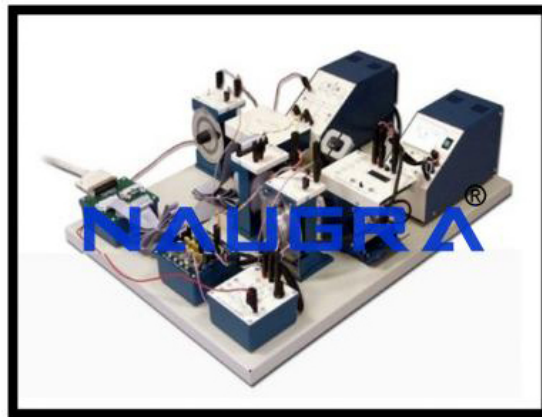


Product Name :
Precision Modular Control Workshop

Product Code :
CE845



Description :

Precision Modular Control Workshop

Technical Specification :

Precision Modular Control Workshop

The Precision Modular Servo Workshop provides a rapid and direct path from control system design to hardware implementation. The resolution and accuracy of the system and the consistency of its performance, makes the Precision Modular Servo Workshop ideal for serious study of digital linear servo control systems. As well as allowing study of digital control the Precision Modular Servo Workshop also provides a complete introduction to servos, from fundamental studies of analogue servos through to full, real-time digital control, Real-time Workshop and Real-time Windows Target (not supplied). It is fully supported with laboratory assignments which have been designed to give students a full understanding of the control paths within the equipment.

High-speed, high-resolution digital incremental feedback

Real-time PID control

Position and velocity

PID controller design

Adaptive control

Precision Modular Servo model identification

Anti wind-up and gain scheduling design.

1 tank & 2 tank identification

PID control of water levels in top tanks

PID control of water levels in bottom tanks

Parallel PID control in two double tank columns

Cross-coupling introduction & analysis

Dynamics decoupling with cross-coupling identification
PID control with decoupling
Disturbance compensator with PID control

Features:

Interesting control problem based on a “real-life” industrial situation
Self-contained floor-standing or bench-mounted equipment
Four tanks each water level measurement
Two independently controlled pumps
Wide range of control scenarios due to flexible ways of coupling tanks
Basic to advanced level control
System dynamics modified by easy to change orifice caps
Supplied with a comprehensive theory & experiment manual

Technical data:

Dimensions: floor-standing: 1700 mm x 680 mm x 450 mm, bench mounted: 1360 mm x 680 mm x 450 mm
Weight (net): 36 kgs
Reservoir tank capacity: 32 litres.

Naugralabequipments

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