

Product Name :
Coriolis Component of Acceleration

Product Code :
NLAB-TECHNICALAB35005



Description :

Coriolis Component of Acceleration

Technical Specification :

The set-up is designed to study Coriolis Component Of Acceleration of a slider crank mechanism. Here the mechanical slider system is replaced by a continuous stream of water flowing through a steady rotating pair of tubes.

These tubes can be rotated at various speeds by using a swinging field motor which also acts as dynamometer. A Perspex window on top of the tank gives clear view of the process and prevents splashing of the water over the side of the tank.

The dynamometer continuously measures torque applied to the rotating tubes.

The equipments is self contained, water re-circulating, provided with its own speed control unit and separate water circulating pump.

Experiments

To determine Corioli's Component of Acceleration at various speeds of rotation and water flow rates

Utilities Required

Water Supply & Drain

Electricity 0.5 kW, 220 V, Single Phase

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