

Product Name :
Coriolis component of acceleration apparatus

Product Code :
Theory of Machine0011



Description :

Coriolis component of acceleration apparatus

Technical Specification :

The setup 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 slowly rotating pair of tubes. These tubes can be rotated at various speeds by using a winging belt 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 equipment is self contained, water re-circulating, provided with its own speed control unit and separate water circulating pump.

Experiments

- To determine Coriolis 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

