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Product Name :
Tilting Flow Channel

Product Code :
LBNY-0005-10300054



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Description :

Tilting Flow Channel is done by dropping a particle into a vertical liquid column and timing its fall between two points. Various sizes and density of particles are supplied including stream lined shaped objects. The Tilting Flow Channel apparatus is designed to study the drag of a particle in a liquid under various Reynold numbers. A guide at the top of the tube is provided to minimize disturbance to the liquid. A fluorescent tube light at the back of the liquid tube allows clear observation of the particle fall. Valves at the bottom of the tubes provide a mean for particle removal with minimum loss of the liquid.

Experiments:

Effect of boundary layer separation on motion of sphere.
Effect of particle shape on rate of fall and drag coefficient.
Measurement of drag coefficients of sphere under various Reynold numbers.
Exploration of dynamic similarity.

Technical Specification :

Technical Data:

Ball spheres : 5 different diameters in steel and plastics
Glass tubes : 2 ea
Fluorescent lamp : 40 W .Stop watch : 1 ea
Streamlined object : Stainless steel, 2 ea
Power supply : 220V, 1 Ph, 50 Hz.



Laboratory Instrument India