

F12 Compound Pendulum & Torsion Pendulum



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Experiments:

1. Compound pendulum the magnitude of gravity acceleration
2. Torsion pendulum the stiffness coefficient of metal wire.

Specification:

1. Aluminum experimental platform x1

Aluminum alloy, an top 3 D biconvex guide track ,on the surface, is fastened by U-shaped clips below and one of both sides is adhered to an meter of inclination of 45-degree. And the type of three-point level supporter of 120 x12x4.5cm is subjected at at both ends. Include a photogate slide mount.

1. Aluminum Pillar with four channel 60x3x3cm, include photogate slide mount. Top of pillar with platform one end have a triangle blade for Compound Pendulum, another end have a metal cave for quick fix Torsion Pendulum.
2. Compound Pendulum x1
40cm length copper threaded rod with thread pitch 1mm , include two Aluminum nut with fine notch weight about 4.7g.
3. Metal wire for Torsion Pendulum x5
 - 4-1. different metal wire Steel/Aluminum/copper with same dia. 2mm and same length 500mm
 - 4-2. steel with same length 500mm ,but dia 2/1.5/1mm
4. Metal body for measure moment of inertia.
 - 5-1. Iron disc dia. 124mm, weight 1160g with cave for fix metal wire.
 - 5-2. Iron ring outside dia 124mm inside dia, 104mm weight 485g
5. Gradienter x1
6. hexagon keys x1