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Product Name :
Equilibrium of Forces

Product Code :
LBNY-0005-13900035



Description :

A force board is clamped into the working area of Universal Frame and Stand single and double pulleys sets can be fixed round the perimeter of the to produce an infinite variety of multi-directional forces in a vertical plane. Two cord rings held together by a short cord are used for non-concurrent force experiments. The lines of action of the cords are transferred onto a sheet of paper clipped to the force board using the board clips provided. By using a single cord ring (concurrent forces), up to six cords can be attached and the cords tensioned with load hangers and weights to obtain Equilibrium of Forces. The set of weights for the experiment is included.

Technical Specification :

Experimental Capabilities:

Equilibrium of up to six non-concurrent forces
Experimental verification of the three conditions of equilibrium, i.e. $F_x = 0$; $F_y = 0$; $M_x = 0$ (where F = forces and M = moments)
Equilibrium of a set of forces acting in a vertical plane
Graphical solution of a triangle of forces (three forces) or closed polygon for more than three forces
Equilibrium of up to six concurrent forces.
Construction of polygon of forces
Link polygon.

Specification:

Single and double cord rings offer the alternatives of concurrent and non-concurrent forces
Comprehensive technical manual for student and lecturer and text book provided
To use pulleys on the perimeter of the Universal Frame and Stand to turn the cords vertically downward

The forces produced by cords tensioned by weights on hangers
The lines of force to be transferred onto paper sheet clipped to the force board
Must be used with universal Frame and Stand
Comprehensive instruction manual provided
Calibrated weights set and hangers supplied.



Laboratory Instrument India