

CONCURRENT FORCES IN EQUILIBRIUM

Aim: To measure the weight of a given body (a wooden block) using the parallelogram law of vector addition.

Apparatus: Given body with hook, Parallelogram law of vector apparatus (Gravesand's apparatus), strong thread, slotted weights (two sets), White paper, thin mirror strip, sharp pencil.

Principle : **The parallelogram law of vector addition:**

When two forces act simultaneously at a point and are represented in magnitude and direction by the two adjacent sides of a parallelogram, then the resultant force can be represented both in magnitude and direction by the diagonal of the parallelogram passing through the point of application of the two forces.

Formula: The resultant of two forces **P** and **Q** is given by,

$$R = \sqrt{P^2 + Q^2 + 2PQ \cos \theta}$$

Where $\theta \rightarrow$ angle between the two forces **P** and **Q**.

Procedure:

- 1) Gravesand's apparatus board is fixed in a vertical position by using a plumb-line and a sheet of white paper is fixed on the wooden board with drawing pins.
- 2) Sufficiently long piece of thread is taken and tie the two hangers at its ends. Another shorter thread is tied in the middle of the first thread to make a knot at 'O'. The body of unknown weight is tied at the other end of the shorter thread. They are arranged on the pulleys as shown in the figure. With slotted weights on the hangers.
- 3) Weights are added to the hangers such that the junction 'O' of the thread is in equilibrium in the lower half of the paper.

Equilibrium Of Concurrent Forces Lab Report Answers

Padhraic Smyth



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Government Reports Announcements & Index ,1990 *Wiley Books* John Wiley & Sons, 1932 *U.S. Government Research & Development Reports* ,1970 **Physics Briefs** ,1991 **International Aerospace Abstracts** ,1994

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