

EXPERIMENT NO. 1 (A)**AIM: VERIFICATION OF PARALLELOGRAM LAW OF FORCES**

APPARATUS:- Gravesand's apparatus complete with two freely moving guide pulleys, weights, thread, a small central ring, white paper sheet, three scale pans, tape, a mirror strip, set squares and pencil.

THEORY: The 'Parallelogram Law of forces' states that if a particle is acted upon by two forces represented in magnitude and direction by the two sides of a parallelogram drawn from a point, then the resultant is completely represented by the diagonal passing through the same point.

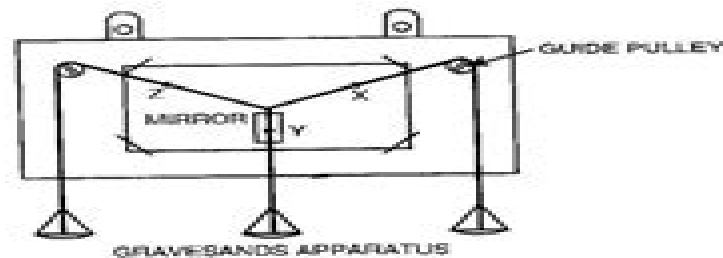


Fig. LW—1

PROCEDURE:

- I) Take any point O on the plane of paper and draw a line OA Parallel to forces Z. Similarly draw a line OB parallel to force X.
- II) Complete the parallelogram OAC'B as shown in fig. 2

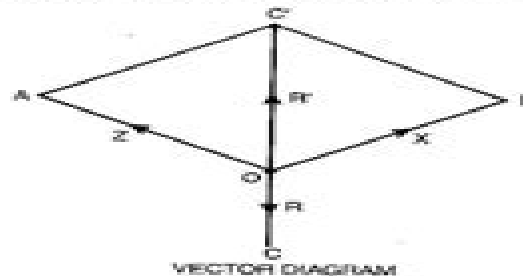


Fig. LW—2

- III) Join O to C' which is the diagonal of the parallelogram OC' to the given scale gives the resultant of forces X and Z.

Mechanics Lab Manual

Habib Ahmari, Shah Md Imran Kabir

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

Mechanics Lab Manual:

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