

**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

**Terry C. Jones**



## **Mechanics Lab Manual:**

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