



**ENGINEERING MECHANICS**  
**Experiment no 2**

**Title: Determination of support reaction of simply supported beam and verify the equilibrium condition for parallel force system.**

**Aim:** Determination of support reaction of simply supported beam and verify the equilibrium condition for parallel force system.

**Apparatus:** Simply supported beam apparatus, hook, weight hanger

**Theory:**

Beam is a structural member of length which is considerably greater than 2D.

Building beam are used for transfer of load to the columns .generally beams are transversely loaded i.e. load is acting perpendicular to the axis of beam.

**Principle of parallel forces:**

**“ If number of forces are acting on a body which is in equilibrium then the algebraic sum of the forces must be equal to zero.”**

Let  $R_L$  = Reaction at left Support

$R_R$  = Reaction at right support

Using the condition of equilibrium for parallel force system.

Taking moment about the left support,

$$W_1L_1 + W_2L_2 - R_R L = 0 \dots\dots\dots(1)$$

The reaction at right support i.e.

$$R_L - W_1L_1 - W_2L_2 - R_R = 0 \dots\dots\dots(2)$$

# First Year Engineering Mechanics Notes

**Camilla Rothe**



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