



**55736** Experimental Set Up has been designed specifically to find the value of modulus of rigidity 'h' of material of the given wire with Maxwell's needle.

Practical experience on this set up carries great educative value for Science and Engineering Students.

#### **OBJECT**

- 01 To determine the value of modulus of rigidity 'h' of material of the given wire with Maxwell's needle.

#### **FEATURES**

The Set up consists of :

- 01 Maxwell's needle, consisting of a hollow cylindrical brass tube of length 40 cm suspended by a wire whose modulus of rigidity is to be determined. The tube is open at both ends. The hollow tube is filled with four brass cylinders two solid and two hollow, each having 10 cm length and same radii. It is fitted with wire Chuck and mirror. Complete with wall attachment without stand.
- 02 1 Meter Hard steel wire.
- 03 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

#### **OTHER APPARATUS REQUIRED:**

- 01 Micrometer screw gauge.
- 02 Meter Scale.
- 03 Physical balance with weight box.
- 04 Digital Stop Clock OMEGA TYPE DSC-602 with START/STOP operation by means of toggle switch & RESET by a push button switch. It has a range of 999.9 seconds with resolution of 0.1 seconds and accuracy of  $\pm 0.01\%$  (Quartz controlled). Display is thorough 4 no's of 12.5mm bright Seven Segment Displays and working voltage of the unit is  $230V \pm 10\%$  50Hz.
- 05 Light pointer (Laser light).

Note: Specifications are subject to change.

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