



55737 Experimental Set Up has been designed specifically for the study of coupled pendulum system, study of oscillations in mixed modes & determination of the period of energy exchange between the two oscillators. The set up is absolutely self contained and requires no other apparatus. Practical experience on this set up carries great educative value for Science and Engineering Students.

OBJECT

- 01 To study the normal modes of a coupled pendulum system.
- 02 Study of oscillations in mixed modes and determination of the period of energy exchange between the two oscillators.

FEATURES

The Set up consists of the following :

- 01 Two, Compound Pendulums. Each of these are essentially an aluminium rod of size 870mm approx., Supported by two pin pivot arrangement on an aluminium stand. The centre of mass of the oscillatory system can be shifted by sliding masses above & below the pivot points.
- 02 Digital Stop Clock 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.
- 03 Slotted weight set : Brass having one hanger 10gm and slotted weights of 10, 20, 20 & 50gm one each. Total weight 110gm
- 04 Two each Brass Weight $2\frac{1}{2}'' \times 1\frac{1}{2}''$ and $1\frac{1}{2}'' \times 1''$.
- 05 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, 2.1 Metre Hard steel wire. Report Suggestions and Book References.

Note: Specifications are subject to change.

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