

HELICAL SPRING - OSCILLATION METHOD

Aim

To determine the spring constant of a spring by measuring the time period of oscillations for known masses.

Apparatus

Helical spring, weight hanger, slotted weights, stop watch, etc.

Theory

The period of oscillation of a spring

$$T = 2\pi \sqrt{\frac{M}{k}},$$

where 'M' is the mass suspended and 'k' is the spring constant.

$$\therefore k = 4\pi^2 \left(\frac{M}{T^2} \right)$$

Procedure

The helical spring is suspended vertically from a rigid stand. The pointer and weight hanger are attached at the free end of the spring (see fig. 1). The weight of the hanger should be enough to keep the spring vertical and sufficiently stretched.

Let the mass attached to the spring be M kg. The weight hanger is pulled downwards through a small distance and left free. Time taken for 20 oscillations is noted using a stopwatch as 't'. The period of oscillation is $T = \frac{t}{20}$ sec. Then $\frac{M}{T^2}$ is calculated.

The experiment is repeated for different values of 'M' by adding weights to the hanger. Average value of $\frac{M}{T^2}$ is calculated. The spring constant 'k' is calculated using the equation

$$k = 4\pi^2 \left(\frac{M}{T^2} \right)$$

Sgmicroecon Thery Concconn

Rachel S Tattersall



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