

PHYSICS-11

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EXPERIMENTS

1. Find the unknown weight of a body by the method of vector addition of forces.
2. Find the area of cross section of a wire and volume of a small sphere using micrometer screw gauge.
3. Find the acceleration due to gravity by oscillating mass spring system.
4. (i) Study the law of conservation of momentum by colliding trolleys and ticker timer for inelastic collision.
(ii) Study the law of conservation of momentum by colliding trolleys and ticker timer for elastic collision.

5. Study the fall of a body through a viscous medium and hence deduce the co-efficient of viscosity of the medium.
 6. Determine Young's modulus of a wire by Searle's apparatus.
 7. Find the moment of inertia of flywheel.
 8. (i) Determine frequency of A.C. by Melde's apparatus.
(ii) Determine frequency of A.C. by using electric sonometer.
 9. Investigate the law of vibration of stretched strings by sonometer.
 10. Determine the wavelength of sound in air using stationary waves and calculate the speed of sound.
 11. Determine the focal length of a convex lens by displacement method.
 12. Find the refractive index of the material of a prism using spectrometer.
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