LIST OF EXPERIMENTS

Reference Book: Practical Physics for degree students: 4th Edition

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1. Measurements with
2. Slide calipers (Expt. 1. p. 15)
3. Screw-gauge (Expt. 2. p. 20)
4. Spherometer (Expt. 3. p. 24)
5. To determine the modulus of rigidity of the material of a wire by statical method. (Expt. 9. p. 59)
6. To determine the spring constant and effective mass of a given spiral spring and hence to calculate the rigidity modulus of the material of the spring. (Expt. 11. p. 68)
7. To determine the pressure coefficient of a gas at constant volume by a constant volume air thermometer. (Expt. 21.p.120)
8. To determine the thermal conductivity of a bad conductor by Lee and Cholton's Method. (Expt. 30. p.167)
9. To determine the focal length and hence the power of a convex lens by displacement method with the help of an optical bench. (Exp. 38. p. 221).
10. To determine the focal length and hence the power of a concave lens by using an auxiliary convex lens. (Exp. 39. p. 227)
11. To determine the value of g, acceleration due to gravity, by means of a compound pendulum. (Expt-13. p 78)
12. To determine the refractive index of a liquid by plane mirror and pin method using a convex lens. (Expt. 40. p. 232)
13. To determine by Boy’s method (i) the radius of curvature of a convex lens and (ii) the refractive index of the material of the lens. (Expt. 42. p. 241)
14. To determine the radius of curvature of a lens by Newton’s rings method. (Exp. 46. p.274)
15. To determine the value of an unknown resistance with the help of a Post Office Box and to verity the laws of series and parallel resistances. (Exp. 56. p. 371)
16. To compare the e. m. f. of two cells by using a potentiometer. (Exp. 64. p. 410)
17. To determine the value of the mechanical equivalent of heat J by electrical Method. (Exp. 69. p. 433)
18. To determination of the specific rotation of sugar solution by a polarimeter. (Exp.- 49 p. 306)