

Physics Lab Equipments & Experimental Setups

ME 908 SB - To determine the modulus of rigidity of material of a wire/rod by statical method using Barton's apparatus



Setup Consist of:

- Barton's apparatus
- Weights : 5 kg
- Screw gauge : Least count - 0.01mm Range :15cm
- Vernier caliper : Least count - 0.01cm Range :15cm
- Measuring tape : 3 Meters

ME 909 - To determine the Young's modulus of the material of a given beam supported on two knife edges and loaded at the middle point



Setup Consist of:

- Two parallel knife edges on which the beam is placed
- A hook to suspend weights
- Measuring tape : 3 Meters
- Spherometer Fitted Arrangement
- Slotted weights : 2500gm
- DC Source : Battery 9V
- Bulb : 6V
- DC connecting wires : 1 Meters
- Screw gauge : Least count - 0.01mm
- Vernier caliper : Least count - 0.01cm Range :15cm
- Metallic bar : Iron Beam (Length 1 Meter)

ME 909A - Determination of time period, frequency of vibrations and young's modulus of cantilever beam



Setup Consist of:

- Cantilever beam : 1 Meter (with bench clipper)
- Measuring tape : 3 Meter
- Scale with stand arrangement
- Screw gauge : Least count - 0.01mm
- Vernier caliper : Least count - 0.01cm Range :15cm
- Weight : 100gm (with attachable arrangement)
- Stop watch : Least count - 0.01 Sec

ME 909T - To determine the Young's modulus of the material of a given beam supported on two knife edges and loaded at the middle point (Using travelling microscope)

Setup Consist of:

- Two parallel knife edges on which the beam is placed.
- A hook to suspend weights
- Screw gauge : Least count - 0.01mm
- Vernier caliper : Least count - 0.01cm Range :15cm
- Metallic bar : Iron beam (Length 1 Meters)
- Slotted weights : 2500gm
- Travelling Microscope
- Measuring tape : 3 Meters

ME 910 - To determine the value of 'g', and the moment of inertia of a bar about C.G. by means of a bar pendulum.

Setup Consist of :

- Bar Pendulum
- Steel knife edge
- Stop watch : Least count - 0.01 Sec
- Measuring tape : 3 Meters

Optional:

- Low power telescope with stand

