



55850 Experimental Set-Up has been designed specifically to determine Small Angle and Refractive Index of the Material of given Small - Angled Prism by Methods of Normal Incidence and Normal Emergence using Spectrometer. The set-up consists of Spectrometer, Mercury light source, small angled Prism, Reading lens etc. The set-up is complete in all respect and requires no other apparatus. Practical experience on this set up carries great educative value for Science and Engineering Students.

OBJECT

- 01 To determine the Small Angle of given Small - Angled Prism using Spectrometer by Normal Incidence Method.
- 02 To determine the Refractive Index of the Material of the given small angled Prism using Spectrometer by Normal Incidence Method.
- 03 To determine the Refractive Index of the Material of the given small angled Prism using Spectrometer by Normal Emergence Method.

FEATURES

The complete Experimental Set-up consists of the followings :

- 01 SPECTROMETER STANDARD : 6" dia circle reading 30 seconds. The objectives used in telescope and collimator are achromatic and provided with rack and pinion focussing arrangement. Telescope arm and prism table are provided with fine and coarse adjustment. The prism table is provided with three leveling screws and is engraved with concentric rings & lines. The scales and verniers are of stainless steel and are machine divided. Clamping devices are also provided to lock telescope and collimator after adjustment; with prism clamping device and diffraction grating stand.
- 02 SODIUM LIGHTSOURCE : Sodium light source complete with sodium lamp 35 watt with vacuum jacket, Transformer & Wooden Box having four holes with slide covers one each on every side at different heights.
- 03 SMALL- ANGLED PRISM : Optically worked.
- 04 READING LENS : 40/50 mm. diameter with handle.
- 05 SPIRITLEVEL : 60/80 mm. length.
- 06 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Note: Specifications are subject to change.

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