



55843 Experimental Set Up has been designed specifically to determine the Refractive Index of the material of the prism using Stoke's formula.. The set-up consists of Spectrometer, Sodium light source, Prism, Reading lens, Spirit Level 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

To determine the Angle of emergence (i') for different angles of incidence (i), hence calculate refractive index of the material of the prism using Stoke's formula.

FEATURES

The complete Experimental Set-up consists of the following :

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 vaccum jacket, Transformer & Wooden Box having four holes with slide covers one each on every side at different heights.

03 PRISM : Borosilicate Crown Glass Optically worked with two faces polished, Equilateral, size 38mm x 38mm.

04 READING LENS : 40/50mm diameter with handle.

05 SPIRITLEVEL : 60/80mm 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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