55767 Experimental Set-Up has been designed specifically to determine Brewster's angle for a glass surface and hence to determine refractive index of glass. The set-up consists of Spectrometer, Incandescent bulb, glass prism and Polaroid attachment to Telescope objective.

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 Brewster's angle for a glass surface and hence to determine refractive index of glass.

FEATURES

The complete Experimental Set-up consists of the following :

0 1 Incandescent bulb with house on stand.

02 Polaroid mounted on a graduated circular scale 360° which can the mounted on telescope by the help of three screws.

03 Prism : Optically worked with two faces polished, equilateral size 38mm x 38mm.

04 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.

05 Reading lens : 40/50 mm diameter with handle.

06 Spirit level : 60/80 mm length

07 Weight : 10.4 Kg. (Approx.)

08 Strongly supported by detailed Operating Instructions, giving details of Object, Theory, Design procedures, Report Suggestions and Book References.

Note: Specifications are subject to change.