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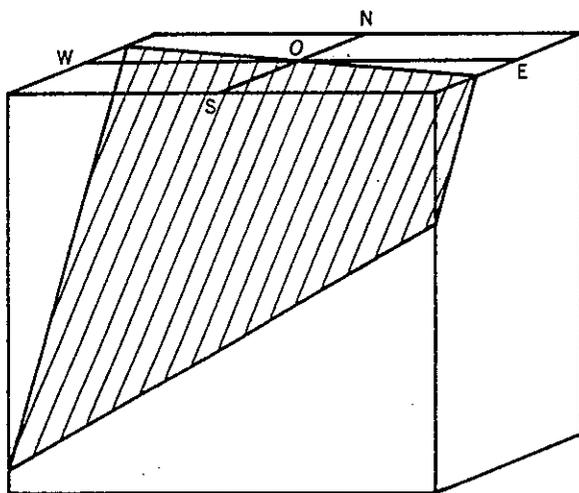
Graphic Solutions
with the Stereonet

STEREOGRAPHIC PROJECTION

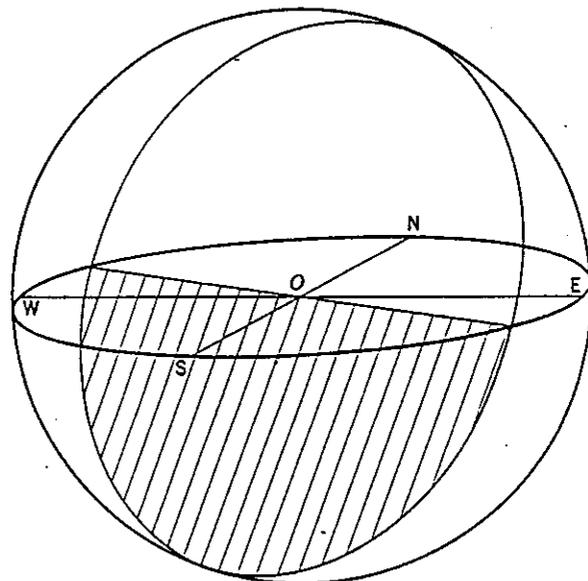
The solution of problems by the usual methods of descriptive geometry requires the construction of at least two orthographic views, and this consumes much time and effort. Fortunately, there is an alternative approach by which the *angular* relationships

of lines and planes can be determined more readily.

If a sphere is constructed centered at some point O on the outcrop trace of an inclined structural plane (Fig. 11.1a), the plane and its extension will intersect this sphere as a great circle (Fig. 11.1b); that is, one whose plane includes the center point O . In order to be of



(a)



(b)

FIGURE 11.1 Representation of an inclined plane. (a) Block diagram with point O on the outcrop trace. (b) A sphere constructed with center at point O . (After Phillips, 1971.)