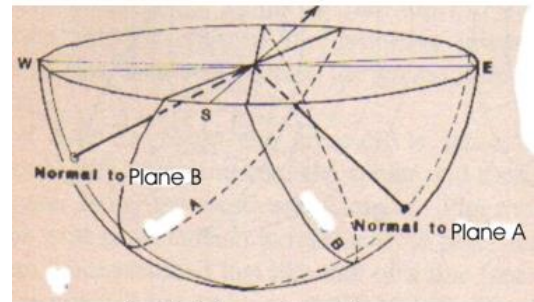


## **The angle between two planes and the attitude of intersection line between two planes**

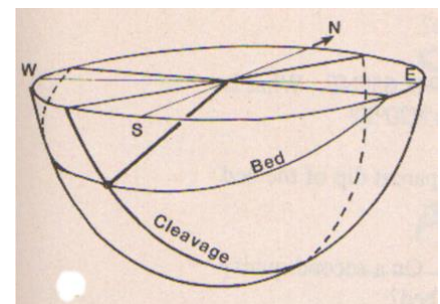
### I- Determining the angle between a pair planes (A,B) stereographically



Angle between two planes

### II- The attitude of intersection line between two planes

**Exercise:** Find the angle between a pair (1&2) planes and attitude of intersection line between two planes.



Intersection line between two planes

No.	First plane	Second plane	Angle	Attitude of intersection line
1	S50W/62SE	254/49		
2	150/23NE	029/32NW		
3	210/80	186/70SE		

### The plotting procedure

- 1- Plot both planes as great circles and poles.
- 2- Measure the angles between the poles using the same method as that for measuring the angle between two lines (i.e. these angles are measured along the great circle containing the two poles).
- 3- The line of intersection L of these planes is given directly by the point of intersection of the great circles. The plunge and plunge direction of the line of intersection are then obtained by, in reverse, the procedure given in the Lab.1.