The position of a stratum is determined by obferving its inclination, dip, and direction.

The inclination is the angle which the stratum forms with the horizon, and is determined by the quadrant.

The dip is the point of the compass towards which the stratum inclines.

The direction is the angle which the stratum makes with the meridian, and is determined by the compass. It is always at right angles to the dip.

In making observations of this kind, it is of the greatest importance to distinguish the general direction and inclination, from the partial. To effect this, we must take the results of a number of particular observations, and compare them together; and those similar angles which are the most numerous, are to be confidered as expressive of the general inclination and direction. It fometimes happens, that this general position has also its variations; these must also be attended to and noted. An acquaintance with the shape of a mountain group, will affift us very much in fuch inveftigations, as it is intimately connected with the general disposition of the stratification of the masses of which it is composed. It is also of importance to know the fall or declivity of a mountain group, as its direction and inclination are generally conformable, particularly in the older formations, with





