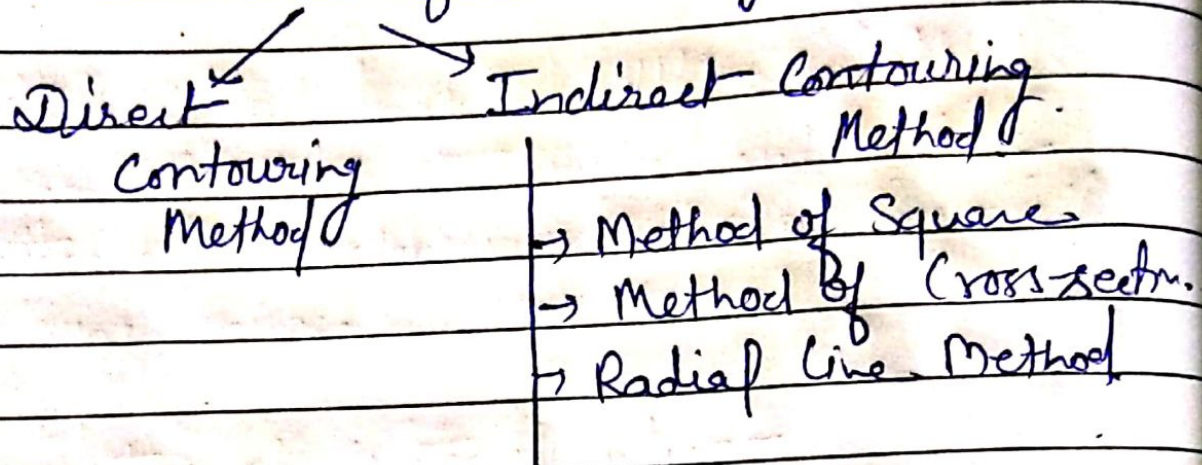


Surveying - II

(1)

Methods of Contouring



A) Direct Contouring Method -

It consist in finding vertical & horizontal control points which lies on a selected contour line. For vertical control, levelling instrument is generally used. Plane Table survey is ideally suited for this work.

This method is slow, tedious but accurate, it is suitable for small area survey.

B) Indirect Contouring Method -

In this method, level are taken at some selected points and their levels are reduced.

Thus in this method horizontal control established first & then level of points.

one found. After locating points, reduced levels are marked. Contour lines are interpolated B/w the selected points. ②

following methods are used for indirect contouring method.

- ① Method of square
- ② Method of cross-section
- ③ Radial line Method

① Method of Square - area is divided into a no. of square and all grid points are marked. commonly used size of square varies from 5m x 5m to 20m x 20m. levels of all grid points are established by levelling.

⑥ Method of Cross Section -

in this method ^③ several points are taken at regular interval, by levelling the R.L. of those point are established. the points are marked on drawing sheets, their reduced level are marked & contour lines are interpolated.

⑦ Radial line Method -

Several radial line are taken from a point in the area & on these line at a selected distance points are marked and levels determined. This method is ideally suitable for hilly regions.

Interpolation - The process of drawing contour line by inferring their plan position & levels from spot level or from other contours, assuming the intervening ground to have uniform slope.