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Course:- (61) Satellite photogrammetry.
and it's Application.

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4th Sem, 'A' Sec

- Concepts of stereophotogrammetry.

- Parallax:- Apparent shift in the position of object due to shift in the position of observation.

- Depth Perception:-

- Methods of judging depth

1. Monoscopic
2. Stereoscopic

- Monoscopic Method

- Relative Size of objects
 - Shadows
 - hidden objects
 - Difference in focusing of eye

- Viewing stereophotographs in Analog Environment

3 - basic types of stereoscopes:

1. Pocket
2. Mirror
3. Scanning

- Viewing stereophotographs in digital Environment

Methods of stereo display in digital Stereoscopes:-

1. Split screen viewing
2. Anaglyphy view
3. Separation by polarization
4. Alternating image view.

- Understanding the Rotation Matrix

$$M = \begin{bmatrix} m_{11} & m_{12} & m_{13} \\ m_{21} & m_{22} & m_{23} \\ m_{31} & m_{32} & m_{33} \end{bmatrix}$$

- Collinearity Condition:-

The exposure station of a photograph
an object point its photo image lies in a

along a straight line.

- Coplanarity Condition:-

The two exposure stations of a stereopair, any object point and its corresponding image points on the two photos, all lie in a common plane.

- Orientation of stereopair:

Recreating same condition as existed at time of photography.

- Unknowns:

- Image coordinates

- Exposure Station coordinates

- Orientation of photographs.