

DAILY ASSESSMENT FORMAT

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Link :	https://eclass.iirs.gov.in	USN:	4AL17EC101
Org By:	ISRO	Semester & Section:	6-B
Github Repository:	bindunr-iirs	Date:	1/07/2020

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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.

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Photogrammetry is the science and technology of obtaining reliable information about physical objects and the environment through the process of recording, measuring and interpreting photographic images and patterns of electromagnetic radiant imagery and other phenomena.

Photogrammetry appeared in the middle of the 19th century, almost simultaneously with the appearance of photography itself. The use of photographs to create topographic maps was first proposed by the French surveyor Dominique F. Arago in about 1840.

The term photogrammetry was coined by the Prussian architect Albrecht Meydenbauer, which appeared his 1867 article "Die Photogrammetrie."

There are many variants of photogrammetry. One example is the extraction of three-dimensional measurements from two-dimensional data (i.e. images); for example, the distance between two points that lie on a plane parallel to the photographic image plane can be determined by measuring their distance on the image, if the scale of the image is known. Another is the extraction of accurate color ranges and values representing such quantities as albedo, specular reflection, metallicity, or ambient occlusion from photographs of materials for the purposes of physically based rendering.