

I'm not robot!

ORTHOGRAPHIC PROJECTIONS { MACHINE ELEMENTS }

**OBJECT IS OBSERVED IN THREE DIRECTIONS.
THE DIRECTIONS SHOULD BE NORMAL
TO THE RESPECTIVE PLANES.
AND NOW PROJECT THREE DIFFERENT VIEWS ON THOSE PLANES.
THESE VIEWS ARE FRONT VIEW , TOP VIEW AND SIDE VIEW.**

**FRONT VIEW IS A VIEW PROJECTED ON VERTICAL PLANE (VP)
TOP VIEW IS A VIEW PROJECTED ON HORIZONTAL PLANE (HP)
SIDE VIEW IS A VIEW PROJECTED ON PROFILE PLANE (PP)**

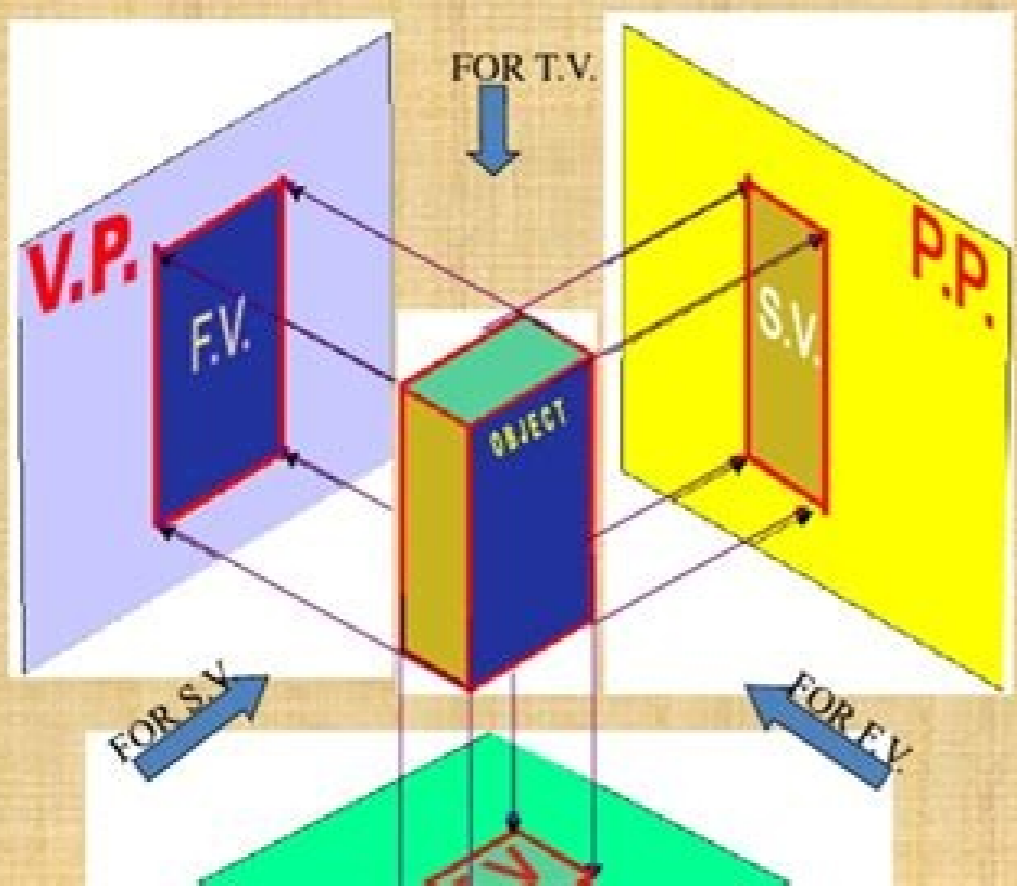
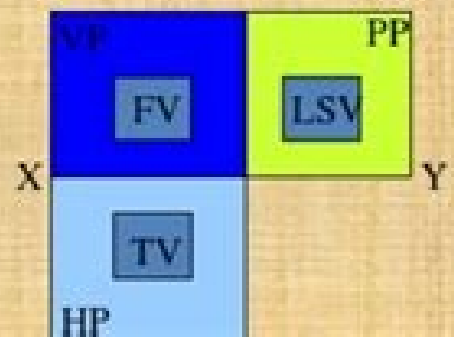
**FIRST STUDY THE CONCEPT OF 1ST AND 3RD ANGLE
PROJECTION METHODS**

**AND THEN STUDY NEXT 26 ILLUSTRATED CASES CAREFULLY.
TRY TO RECOGNIZE SURFACES
PERPENDICULAR TO THE ARROW DIRECTIONS**

FIRST ANGLE PROJECTION

IN THIS METHOD,
THE OBJECT IS ASSUMED TO BE
SITUATED IN FIRST QUADRANT
MEANS
ABOVE HP & IN FRONT OF VP.

OBJECT IS IN BETWEEN
OBSERVER & PLANE.



Chapter 4

Principles of first and third angle orthographic projection

First angle projection

Assume that a small block is made 35 mm x 30 mm x 20 mm and that two of the corners are cut away as shown below in three stages.

Figure 4.2 illustrates a pictorial view of the block and this has been arranged in an arbitrary way because none of the faces are more important than the others. In order to describe the orthographic views we need to select a principal view and in this case we have chosen the view in direction of arrow A to be the view from the front.

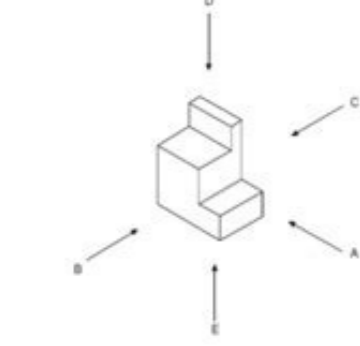
The five arrows point to different surfaces of the block and five views will result. The arrows themselves are positioned square to the surfaces, that is at 90° to the surfaces and they are also at 90° or multiples of 90° to each other. The views are designated as follows:

View in direction A is the view from the front.
View in direction B is the view from the left.
View in direction C is the view from the right.
View in direction D is the view from above.
View in direction E is the view from below.

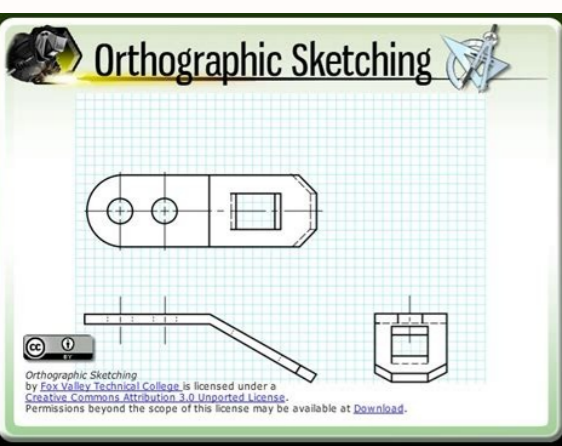
In first angle projection the views in the directions of arrows B, C, D and E are arranged with reference to the front view as follows:

The view from B is placed on the right.
The view from C is placed on the left.
The view from D is placed underneath.
The view from E is placed above.

The experienced draughtsman will commit the above rules to memory. It is customary to state the projection used on orthographic drawings to remove all doubt, or use the distinguishing symbol which is shown on the arrangement in Fig. 4.3.



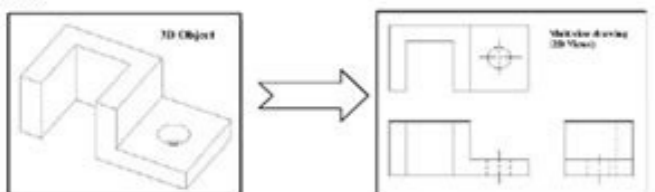
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Week 5 Orthographic Projection, Multi-view Constructions

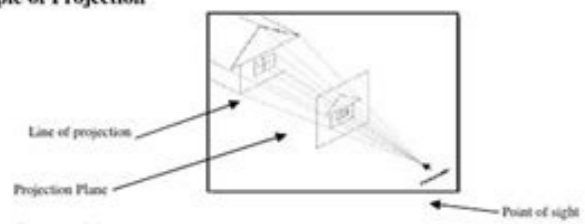
(First & Third angle projection) & layer

Introduction

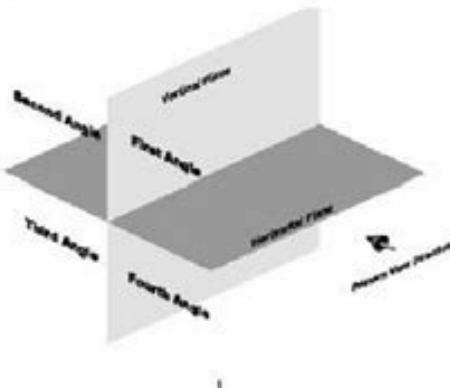


- Most drawings produced and used in industry are multi-view drawings.
- Multi-view drawings are used to provide accurate three-dimensional object information on two dimensional media.
- Each orthographic view is a two-dimensional drawing.
- No individual view contains sufficient information to completely define the shape of the three-dimensional object.
- All orthographic views must be looked at together to comprehend the shape of the three-dimensional object.

Basic Principle of Projection



Multi-view orthographic projection



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