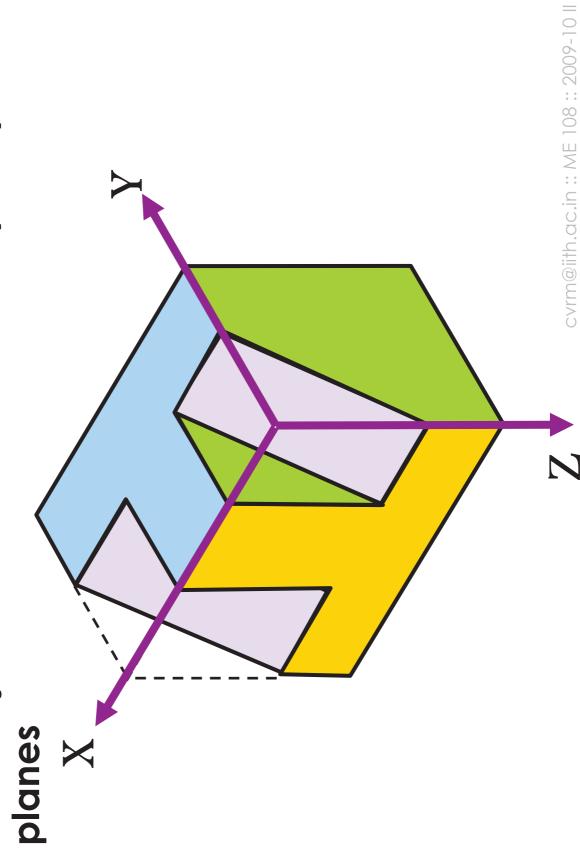


3D Viewing of an object from any point in space

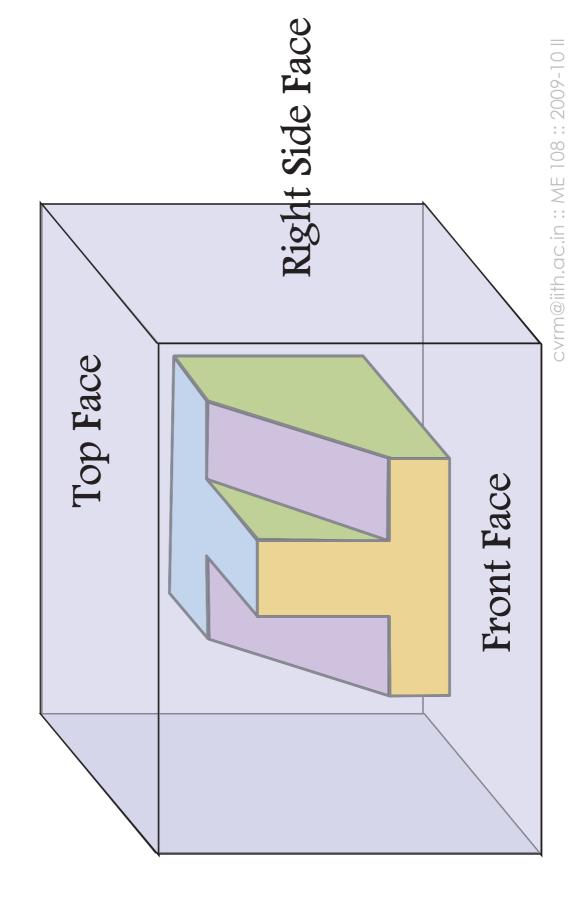
Orthographic projections

Each object can be seen to have principle

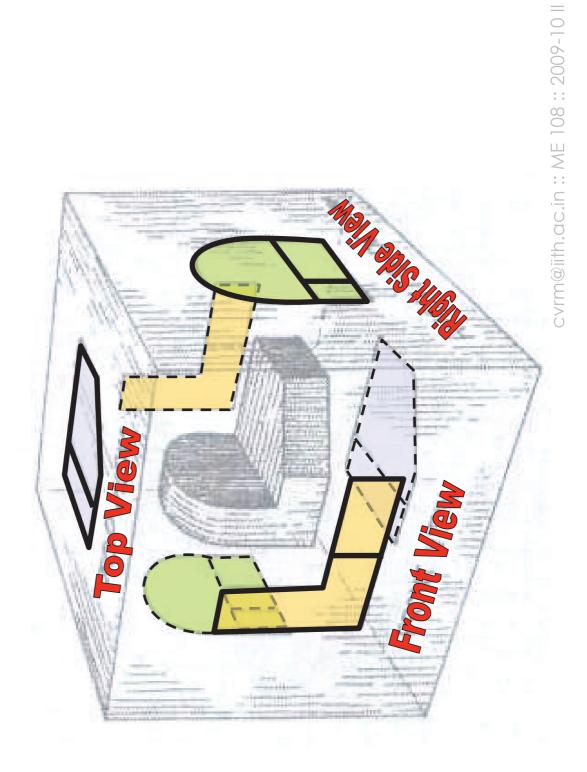


Transparent Viewing Box

Viewing faces



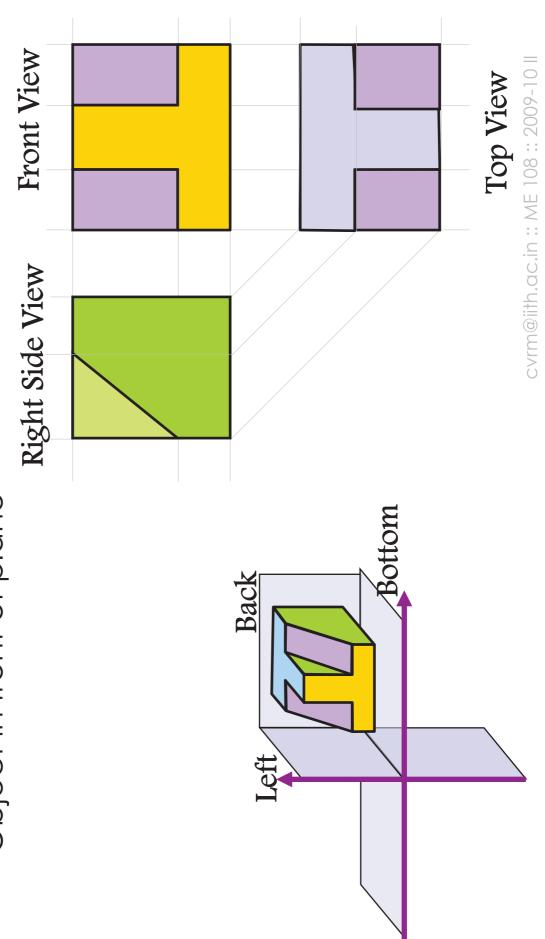
Transparent Viewing Box Right Side View $\textbf{Bottom}_{\text{r}} \textbf{Wiew}_{\text{n}} \text{ac.in} :: \text{ME 108} :: 2009-10 \text{ II}$ Front View Top View Left Side View Viewing faces... Rear View



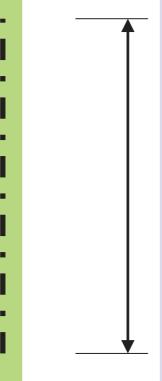
Transparent Viewing Box

FIRST Angle Projection

- Object in front of plane

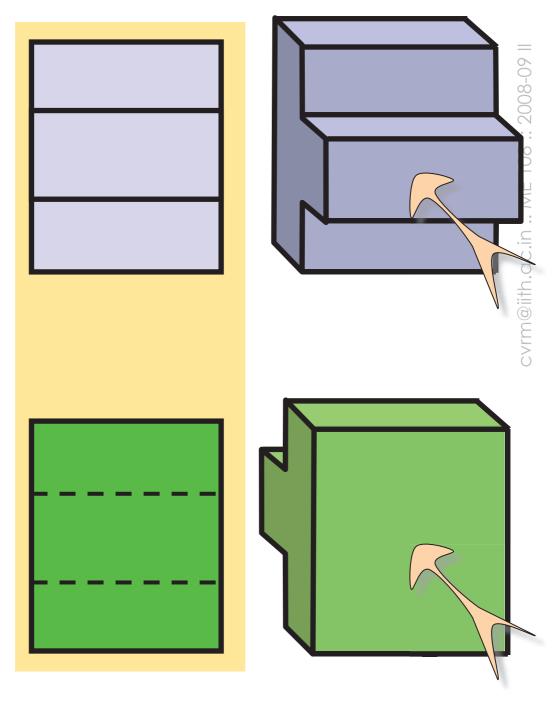


- Visible lines
- Hidden lines
- Centerlines
- Dimension lines
- Construction lines



Visible & Hidden lines

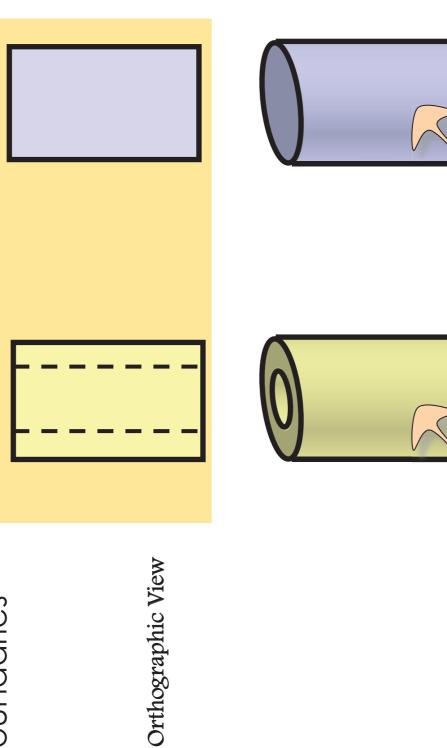
Boundaries



Orthographic View

Visible & Hidden lines

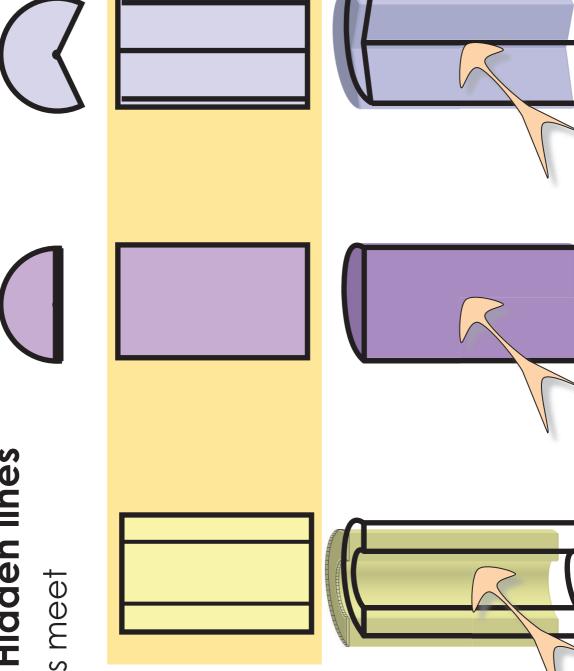
Boundaries



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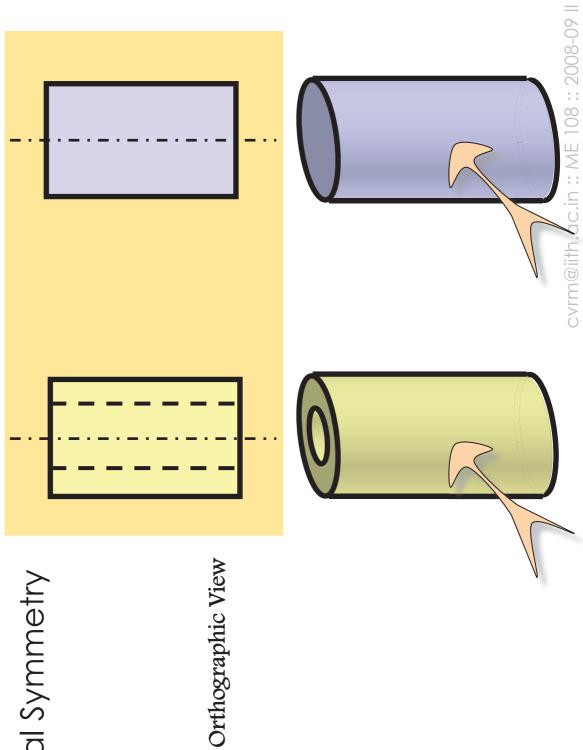
Visible & Hidden lines

Surfaces meet



Orthographic View

Centerlines– Axial Symmetry



Examples

