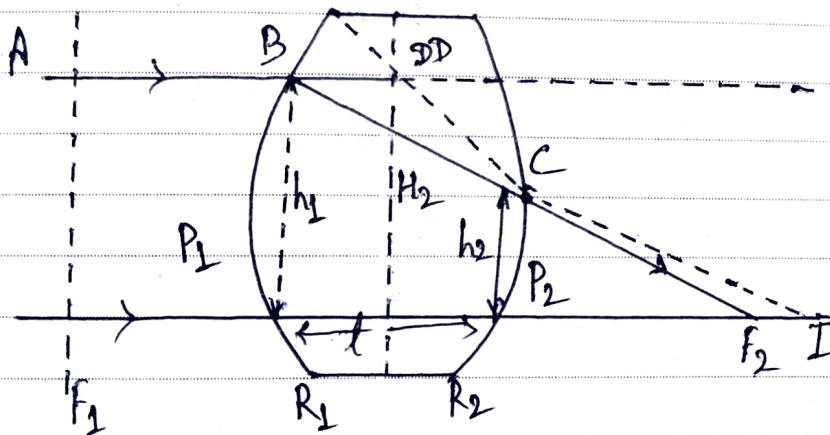


## Thick lens formula : →

Let us consider a convex lens of thickness  $t$  and refractive index  $\mu$  placed in air. Let  $R_1$  and  $R_2$  be the radii of curvature of the two surfaces of the lens. The lens is a combination of two refracting surfaces with poles  $P_1$  and  $P_2$  as shown in fig.



Let a ray  $AB$  parallel to the principal axis be incident on the first surface at height  $h_1$  above the axis. After refraction at the first surface it follows

Notations