



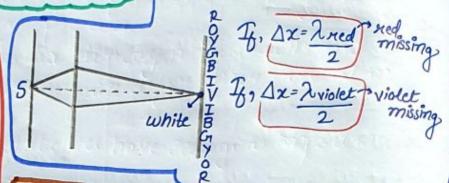
Huygen's Principle: > Each point on the wavefront is the source of a secondary disturbance.



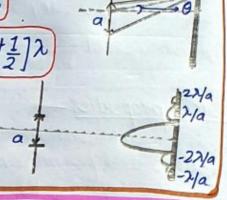
→ phase difference does not change with time = Coherent sources

YDSE

- · Fridge width, B = 20
- · Position of nth bright fringe - Ybright = $\frac{n \lambda D}{d}$
- · Position of nth dark pringe Ydark = (2n-1) 2D
- · For bright fringe (1x=n)
- For dark fringe- $\Delta x = \left[n + \frac{1}{2}\right] \lambda$



#Diffraction-For minima all=n2 For maxima $a\theta = \left[n + \frac{1}{2}\right]\lambda$



#Polarisation;

- Unpolarised:→ E perpendicular to propagation
 → in all directions.
- · polarised: → E perpendicular to propagation -confined only in 1-direction.
- · Law of Malus: IT = I. cos 2)
- · Resolving Power:

For Telescope -
$$RP = 1$$
 = D
 $\Delta \theta_{min} = \frac{D}{1.22\lambda}$