

(4: Unit)

# WAVE OPTICS

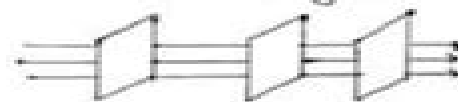
- A wavelet is the point of disturbance due to propagation of light.
- A wavefront is the locus of points having the same phase of oscillation.
- A line perpendicular to a wavefront is called a 'ray'.



Spherical W.F.



Cylindrical W.F. from a linear source



Plane W.F.

HUYGEN'S PRINCIPLE :- Find the shape of wavefront at any particular instance. The two postulate are -

- Each point on primary wave-f. acts as a source of secondary W.F. which travel in all direction with speed of light.
- The forward envelope or common tangent of secondary W.F. give shape of new wavefronts.



## Reflection by Huygen's Principle



$\triangle MPN$  and  $\triangle MQN$ .  $MN = MN$  common side  
 $\angle P = \angle Q = 90^\circ$ ,  $PN = MQ$  (dist. covered by light in same time)  
 $\triangle MPN \cong \triangle MQN$  (by SAS)  
 $30 - i = 30 - r$   
 $i = r$

## Refraction by Huygen's Principle



$$PN = v_1 t$$
$$MQ = v_2 t$$

$$\mu_2 = \frac{\sin i}{\sin r} = \frac{PN/MN}{MQ/MN} = \frac{PN}{MQ}$$
$$\mu_2 = \frac{v_1 t}{v_2 t} = \frac{v_1}{v_2}$$

Interference of light  $\rightarrow$  variation of intensity of light due to overlapping of two light waves.

Constructive - Resultant increase and bright light is formed.

Path diff. :-  $\Delta x = 0, \lambda, 2\lambda, \dots, n\lambda$

Phase diff. :-  $\Delta \phi = 0, 2\pi, 4\pi, 6\pi, \dots, 2n\pi$

Destructive - Resultant is minimum.

Destructive - Path diff. :-  $\Delta x = \lambda/2, 3\lambda/2, \dots, (2n+1)\lambda/2$

Phase diff. :-  $\Delta \phi = \pi, 3\pi, 5\pi, \dots, (2n+1)\pi$

$$\Delta \phi = \frac{2\pi}{\lambda} \times \Delta x$$

Young's double slit experiment (YDS) :- A monochromatic light beam is incident in double slit the pattern obtain on screen consist of alternate bright and dark bands called fringes.

# Target Note 12 Pysics

**Tobias Bleicker**



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not offer Triple Science Take up of chemistry and maths A Level has already exceeded the targets for 2014 set by the Department but take up of physics A Level has increased only slightly since 2005 06 Achievement increased across all science subjects and maths at A Level between 2002 03 and 2009 10 Until recently the Department had a target to ensure that all school laboratories were up to a good or excellent standard by 2010 However it did not collect routine data to measure progress against this target and the most recent research available found that science facilities were inadequate in around a quarter of secondary schools Although recruitment of science graduates to train as specialist teachers has increased the Department is not on course to meet the targets set by the previous Government for recruiting more mathematics and physics teachers by 2014

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