

24 A plane polarised wave has amplitude A . The wave is incident normally on a polarising filter.

The transmission axis of the filter is at angle θ to the plane of polarisation of the incident wave.

What is the amplitude of the wave that emerges from the filter?

A $A \cos \theta$

B $A \cos^2 \theta$

C $A^2 \cos \theta$

D $A^2 \cos^2 \theta$