

17 Vertically polarised light is incident on a polarising filter.

The plane of polarisation of the filter is at angle ϕ to the vertical.

When $\phi = 0^\circ$, the filter transmits vertically polarised light with amplitude A_0 .

When $\phi = 15^\circ$, what is the amplitude of the light transmitted by the filter?

A $0.07 A_0$

B $0.26 A_0$

C $0.93 A_0$

D $0.97 A_0$

