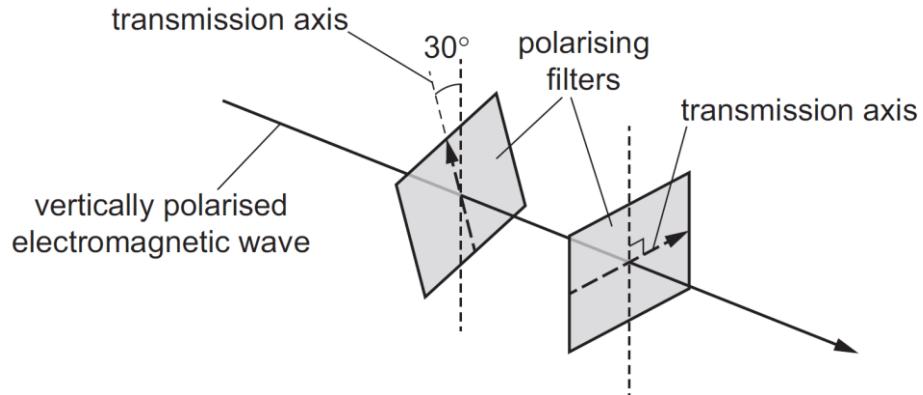


- 15 A vertically polarised electromagnetic wave of intensity I_0 is incident normally on a polarizing filter. The transmission axis of the filter is at an angle of 30° to the vertical.

The transmitted wave from the first filter is then incident normally on a second polarising filter. The transmission axis of this filter is at an angle of 90° to the vertical.



What is the intensity of the wave after passing through the second filter?

- A 0 B $0.063 I_0$ C $0.19 I_0$ D $0.56 I_0$

- 16 Waves B and O have the same amplitude. The waves meet in phase at point X and interfere to