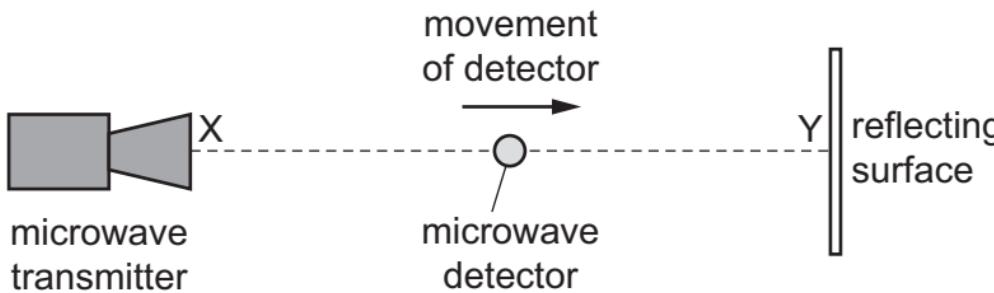


29 A microwave transmitter is placed at a fixed distance from a flat reflecting surface, as shown.



A microwave detector is moved steadily in a straight line from X to Y. A series of maxima and minima of intensity is obtained. The distance between adjacent maxima is 1.5 cm.

What is the frequency of the microwave radiation?

- A** 1.0×10^8 Hz
- B** 2.0×10^8 Hz
- C** 1.0×10^{10} Hz
- D** 2.0×10^{10} Hz

29 Two parallel circular metal plates X and Y, each of diameter 18 cm, have a separation of 0.0 cm.