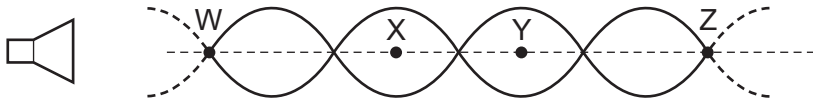


- 24** The diagram represents the pattern of stationary waves formed by the superposition of sound waves from a loudspeaker and their reflection from a metal sheet (not shown).



W, X, Y and Z are four points on the line through the centre of these waves.

Which statement about these stationary waves is correct?

- A** An antinode is formed at the surface of the metal sheet.
- B** A node is a quarter of a wavelength from an adjacent antinode.
- C** The oscillations at X are in phase with those at Y.
- D** The air particles oscillate perpendicular to the line WZ.