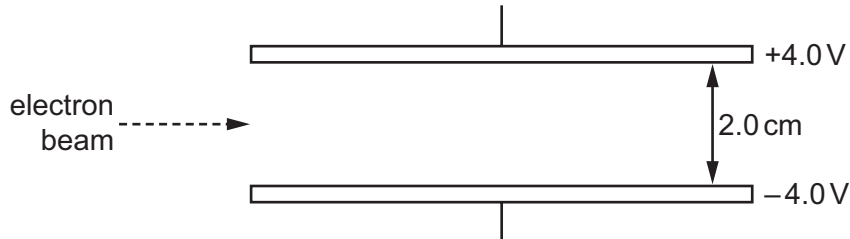


- 28** A horizontal beam of electrons is passed between two horizontal parallel plates, 2.0 cm apart, as shown.



The upper plate has an electrical potential of +4.0 V, and the lower plate has an electrical potential of -4.0 V.

What is the force on each electron when between the plates?

- A** 3.2×10^{-17} N downwards
- B** 3.2×10^{-19} N upwards
- C** 6.4×10^{-19} N downwards
- D** 6.4×10^{-17} N upwards

- 29** The diagram shows two points P and Q which lie 90° apart on a circle of radius r .