

28 The electric field strength at a certain distance from an isolated alpha particle is $3.0 \times 10^7 \text{ N C}^{-1}$.

What is the force on an electron when at that distance from the alpha particle?

A $4.8 \times 10^{-12} \text{ N}$

B $9.6 \times 10^{-12} \text{ N}$

C $3.0 \times 10^7 \text{ N}$

D $6.0 \times 10^7 \text{ N}$