

## Chapter 22

**22.3** What is the magnitude of a point charge whose electric field 50 cm away has the magnitude of 2.00 N/C.

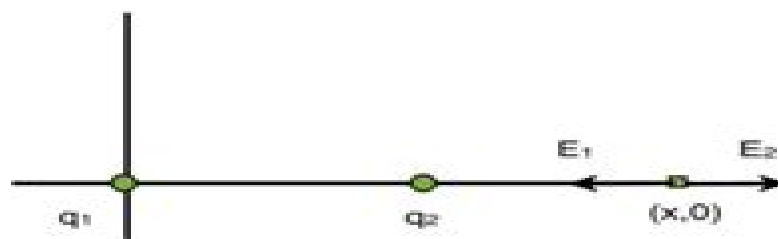
$$\begin{aligned} E &= \frac{q}{4\pi\epsilon_0 r^2} \\ q &= 4\pi\epsilon_0 r^2 E \\ &= 5.56 \times 10^{-11} \text{ C} \end{aligned}$$

**22.5** An atom of plutonium-239 has a nuclear radius of 6.64 fm and atomic number  $Z=94$ . Assuming that the positive charge is distributed uniformly within the nucleus, what are the magnitude and direction of the electric field at the surface of the nucleus due to the positive charge.

Outside a uniformly charged sphere, the field looks like that of a point charge at the center of the sphere.

$$\begin{aligned} E &= \frac{q}{4\pi\epsilon_0 r^2} \\ &= \frac{94 \cdot 1.6 \times 10^{-19} \text{ C}}{4\pi\epsilon_0 (6.64 \times 10^{-15} \text{ m})^2} \\ &= 3.07 \times 10^{21} \text{ N/C} \end{aligned}$$

**22.8** In Fig. 22-31, particle 1 of charge  $q_1 = -5q$  and particle 2 of charge  $q_2 = +2q$  are fixed to an x-axis (a) As a multiple of distance  $L$ , at what coordinate on the axis is the net electric field of the particles zero? (a) Sketch the net electric field lines.



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