

21.52. **IDENTIFY:** For a long straight wire,  $E = \frac{\lambda}{2\pi\epsilon_0 r}$ .

**SET UP:**  $\frac{1}{2\pi\epsilon_0} = 1.50 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2$ .

**EXECUTE:**  $r = \frac{1.5 \times 10^{-18} \text{ C/m}}{2\pi\epsilon_0 (2.50 \text{ N/C})} = 1.05 \text{ m}$ .

**EVALUATE:** For a point charge,  $E$  is proportional to  $1/r^2$ . For a long straight line of charge,  $E$  is proportional to  $1/r$ .

21.53. **IDENTIFY:** For a ring of charge, the electric field is given by Eq. (21.8).  $\vec{F} = q\vec{E}$ . In part (b) use Newton's third law to relate the force on the ring to the force exerted by the ring.

**SET UP:**  $Q = 0.125 \times 10^{-9} \text{ C}$ ,  $a = 0.025 \text{ m}$  and  $x = 0.400 \text{ m}$ .

**EXECUTE:** (a)  $\vec{E} = \frac{1}{4\pi\epsilon_0} \frac{Qx}{(x^2 + a^2)^{3/2}} \hat{i} = (7.0 \text{ N/C}) \hat{i}$ .

(b)  $\vec{F}_{\text{on ring}} = -\vec{F}_{\text{on } q} = -q\vec{E} = -(-2.50 \times 10^{-4} \text{ C})(7.0 \text{ N/C}) \hat{i} = (1.75 \times 10^{-3} \text{ N}) \hat{i}$

**EVALUATE:** Charges  $q$  and  $Q$  have opposite signs, so the force that  $q$  exerts on the ring is attractive.

21.54. (a) **IDENTIFY:** The field is caused by a finite uniformly charged wire.

**SET UP:** The field for such a wire a distance  $x$  from its midpoint is

$$E = \frac{1}{2\pi\epsilon_0} \frac{\lambda}{x\sqrt{(x/a)^2 + 1}} = 2\left(\frac{1}{4\pi\epsilon_0}\right) \frac{\lambda}{x\sqrt{(x/a)^2 + 1}}$$

**EXECUTE:**  $E = \frac{(15.0 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2)(1.75 \times 10^{-9} \text{ C/m})}{(0.0600 \text{ m})\sqrt{\left(\frac{6.00 \text{ cm}}{4.25 \text{ cm}}\right)^2 + 1}} = 3.03 \times 10^4 \text{ N/C}$ , directed upward.

(b) **IDENTIFY:** The field is caused by a uniformly charged circular wire.

**SET UP:** The field for such a wire a distance  $x$  from its midpoint is  $E = \frac{1}{4\pi\epsilon_0} \frac{Qx}{(x^2 + a^2)^{3/2}}$ . We first find

the radius of the circle using  $2\pi r = l$ .

**EXECUTE:** Solving for  $r$  gives  $r = l/2\pi = (8.50 \text{ cm})/2\pi = 1.353 \text{ cm}$ .

The charge on this circle is  $Q = \lambda l = (1.75 \text{ nC/m})(0.0850 \text{ m}) = 14.88 \text{ nC}$ .

The electric field is

$$E = \frac{1}{4\pi\epsilon_0} \frac{Qx}{(x^2 + a^2)^{3/2}} = \frac{(9.00 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2)(14.88 \times 10^{-9} \text{ C/m})(0.0600 \text{ m})}{\left[(0.0600 \text{ m})^2 + (0.01353 \text{ m})^2\right]^{3/2}}$$

$$E = 3.45 \times 10^4 \text{ N/C, upward.}$$

**EVALUATE:** In both cases, the fields are of the same order of magnitude, but the values are different because the charge has been bent into different shapes.

21.55. **IDENTIFY:** We must use the appropriate electric field formula: a uniform disk in (a), a ring in (b) because all the charge is along the rim of the disk, and a point-charge in (c).

(a) **SET UP:** First find the surface charge density ( $Q/A$ ), then use the formula for the field due to a disk of

charge,  $E_z = \frac{\sigma}{2\epsilon_0} \left[ 1 - \frac{1}{\sqrt{(R/x)^2 + 1}} \right]$

**EXECUTE:** The surface charge density is  $\sigma = \frac{Q}{A} = \frac{Q}{\pi r^2} = \frac{6.50 \times 10^{-9} \text{ C}}{\pi (0.0125 \text{ m})^2} = 1.324 \times \text{C/m}^2$ .

# **Solution Manual For University Physics 13th Edition**

**Hugh D. Young, Albert Lewis  
Ford, Roger A. Freedman**



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