

Chapter 15

15.16

$$q = (10 \mu\text{C}/\text{m}^3) L^3$$

15.46

$$\vec{E} = 11 \hat{i} \text{ N/C}$$

15.54

$$E_x = -1.1 \times 10^3 \text{ N/C}$$

$$E_y = 1.4 \times 10^3 \text{ N/C}$$

15.80

$$\Phi_E = 2259 \text{ N}\cdot\text{m}^2/\text{C}$$

$$\Phi_E' = 2000 \text{ N}\cdot\text{m}^2/\text{C}$$

15.88

$$E = -5.6 \times 10^4 \text{ N/C}$$

15.90

$$E = 1.2 \times 10^5 \text{ N/C}$$

15.100

$$E = \frac{Q}{4\pi\epsilon_0 r^2}$$