

Chapter 15

Electric Forces and Electric Fields

Problem Solutions

15.1 F_e

Since these are like charges (both positive), the force is F_e and F_e .

15.2 Particle A exerts a force toward the right on particle B . By Newton's third law, particle B will then exert a force toward the left back on particle A . The ratio of the final magnitude of the force to the original magnitude of the force is

$$F_e = \left(8.99 \times 10^9 \frac{\text{N} \cdot \text{m}^2}{\text{C}^2} \right) \frac{6.00 \times 10^{-9} \text{ C} \cdot 5.00 \times 10^{-9} \text{ C}}{0.300 \text{ m}^2}$$

$$= 3.00 \times 10^{-6} \text{ N}$$

so

$$F_s = \left(8.99 \times 10^9 \frac{\text{N} \cdot \text{m}^2}{\text{C}^2} \right) \frac{3.00 \times 10^{-9} \text{ C} \cdot 5.00 \times 10^{-9} \text{ C}}{0.100 \text{ m}^2} = 1.35 \times 10^{-5} \text{ N}$$

$$F_e = \sqrt{F_e^2 + F_s^2} = 1.38 \times 10^{-5} \text{ N}$$

The final vector force that B exerts on A is $\boxed{1.57 \mu\text{N} \text{ directed to the left}}$.

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