

# Chapter 15 Electric Forces And Electric Fields

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**39** *Electric Field Physics Problems - Point Charges, Tension Force,*  
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charge that stays in one place Electric Charge: a fundamental property of matter associated with the particles that make up the atom. Chapter 15: Electric Charge, Forces, and Fields | slideum.com Chapter 15 Electric Forces and Electric Fields Properties of Electric Charges • Two types of charges exist – They are called positive and negative • Like charges repel and unlike charges attract one another • Nature’s basic carrier of positive charge is the proton – Protons do not move from one material to another because they are held firmly in Properties of Electric Charges Chapter 15 CHAPTER 15 ELECTRIC FORCES CONCEPTS 1. The part of an atom is most likely to be transferred as a body acquires a static electric charge is the electron. 2. If a positively charged rod is brought near the knob of a positively charged electroscope, the leaves of the electroscope will diverge. 3. CHAPTER 15 ELECTRIC FORCE & FIELDS Chapter 15: Electric Forces and Electric Fields. 1. A suspended object A is attracted to a neutral wall. It’s also attracted to a positively charged object B. Which of the following is true about object A? (a) It is uncharged. (b) It has a negative charge. (c) It has a positive charge. (d) It may be either charged or uncharged. 2. Chapter 15: Electric Forces and Electric Fields Chapter 15 Electric Forces and Electric Fields Problem Solutions 15.1 F R Since these are like charges (both positive), the force is FF 63 and . 15.2 Particle A exerts a force toward the right on particle B. Chapter 15 Electric Forces And Electric Fields Etkina/Gentile/Van Heuvelen Process Physics 1/e, Chapter 15 15-5 This is consistent with our understanding of the electric interaction; we have learned that the electric force that charges exert on each other is greater when the charges are closer. Notice how the rubber Chapter 15: Electric Field: Force and

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PHY232 Electric Forces & Fields 15 questions: true false A C B a) if A and C are positive, B is pushed away from A and C b) if A is positive and B is positive, A and B will move further apart c) if A is neutral and C is positive, B will move along the line BC d) if A, B and C have the same charge, they will separate further ...

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 151 F R Since these are like charges (both positive), the force is  
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 Electric Charges • Two types of charges exist – They are called  
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 the proton – Protons do not move from one material to another  
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2.