# Electric Forces and Electric Fields

#### **Problem Solutions**

15.1  $F_{\mu}$ 

Since these are like charges (both positive), the force is  $F_n$  and  $F_k$ .

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

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

= 3.00×10<sup>-6</sup> N

$$F_3 = \left(8.99 \times 10^9 \frac{\text{N} \cdot \text{m}^2}{\text{C}^2}\right) \frac{3.00 \times 10^{-9} \text{ C} \cdot 5.00 \times 10^{-9} \text{ C}}{0.100 \text{ m}^2} = 1.35 \times 10^{-9} \text{ N}$$

$$F_8 = \sqrt{F_6^{-2} + F_3^{-2}} = 1.38 \times 10^{-5} \text{ N}$$

The final vector force that B exerts on A is 1.57 µN directed to the left

# **Holt Physics Electric Forces And Fields Problems**

Keith Johnson, Simmone Hewett, Sue Holt, John Miller

## **Holt Physics Electric Forces And Fields Problems:**

Holt Physics Raymond A. Serway, 2002 Holt Physics ,2000-12 **Problems in Elementary Physics** Edwin Dana Physics Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2006 Tstgen Holt Rinehart & Pierce, 1896 Advanced Physics for You Keith Johnson, Simmone Hewett, Sue Holt, John Miller, 2000 Designed to be Winston, 1998-04 motivating to the student this title includes features that are suitable for individual learning It covers the AS Level and core topics of almost all A2 specifications Physics for the Inquiring Mind Eric M. Rogers, 2011-04-17 In our scientific age an understanding of physics is part of a liberal education Lawyers bankers governors business heads administrators all wise educated people need a lasting understanding of physics so that they can enjoy those contacts with science and scientists that are part of our civilization both materially and intellectually They need knowledge and understanding instead of the feelings all too common that physics is dark and mysterious and that physicists are a strange people with incomprehensible interests Such a sense of understanding science and scientists can be gained neither from sermons on the beauty of science nor from the rigorous courses that colleges have offered for generations when the headache clears away it leaves little but a confused sense of mystery Nor is the need met by survey courses that offer a smorgasbord of tidbit they give science a bad name as a compendium of information or formulas The non scientist needs a course of study that enables him to learn real science and make its own with delight For lasting benefits the intelligent non scientist needs a course of study that enables him to learn genuine science carefully and then encourages him to think about it and use it He needs a carefully selected framework of topics not so many that learning becomes superficial and hurried not so few that he misses the connected nature of scientific work and thinking He must see how scientific knowledge is built up by building some scientific knowledge of his own by reading and discussing and if possible by doing experiments himself He must think his own way through some scientific arguments He must form his own opinion with guidance concerning the parts played by experiment and theory and he must be shown how to develop a taste for good theory He must see several varieties of scientific method at work And above all he must think about science for himself and enjoy that These are the things that this book encourages readers to gain by their own study and thinking Physics for the Inquiring Mind is a book for the inquiring mind of students in college and for other readers who want to grow in scientific wisdom who want to know what physics really is Physics of the **Atom** Mentzer Russell Wehr, James Austin Richards, Thomas W. Adair, 1978 Designed to meet the modern need for a better understanding of the atomic age It is an introduction suitable for any student with a background in college physics and The London, Edinburgh and Dublin Philosophical Magazine and mathematical competence at the level of calculus **Iournal of Science** ,1912 Philosophical Magazine ,1912 U.S. Government Research and Development London, Edinburgh and Dublin Philosophical Magazine and Journal of Science, 1912 **Reports** ,1965 A Text-book of Physics, Largely Experimental Edwin Herbert Hall, Joseph Young Bergen, 1903 **Spectral Theory and Mathematical** 

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