

Chapter 1

Problem 1.1 Four identical point charges q are placed at the corners of a square with side a . Find the net force (magnitude and direction) acting on each of the charges, and the potential energy of the system. The charges are located in vacuum.

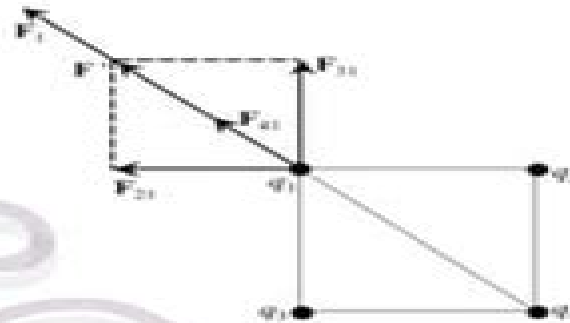


Figure 1S.1 Forces acting on charge q_1 from charges q_2 , q_3 , and q_4 .

Solution Figure 1S.1 illustrates the forces exerted by charges q_2 , q_3 , and q_4 on charge q_1 . Since the charges are equal to each other and two of them (q_2 and q_3) are at the same distance from charge q_1 , it follows that the magnitude of forces F_{21} and F_{31} are equal to each other:

$$F_{21} = F_{31} = \frac{q_1 q_2}{4\pi\epsilon_0 a^2}.$$

The distance between the charges q_1 and q_4 is equal to $a\sqrt{2}$. The magnitude of force F_{41} is equal to:

$$F_{41} = \frac{q_1 q_4}{4\pi\epsilon_0 2a^2}.$$

In order to find the resultant of all the forces it is necessary to add vectors:

$$\mathbf{F}_{21} + \mathbf{F}_{31} + \mathbf{F}_{41} = \mathbf{F}_1$$

Introductory Electromagnetics Answers

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