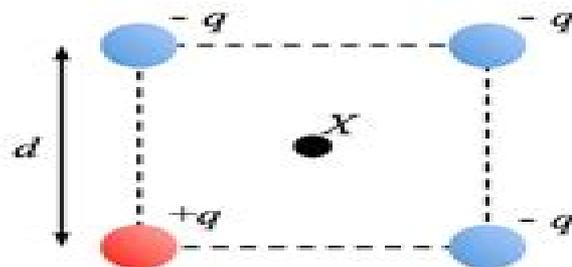


Question:

Four charges are placed at the corners of a square with sides of length d as shown above. The electric field at point X in the center of the square is:

- $\frac{4kq}{d^2}$, to the upper right
- $\frac{4kq}{d^2}$, to the lower left
- $\frac{3kq}{d^2}$, to the upper right
- $\frac{2kq}{d^2}$, to the upper right
- $\frac{2kq}{d^2}$, to the lower left

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Answer:

The correct answer is *a*. While the effect of the upper-left and lower-right charges cancel at the center of the square, both the $+q$ and the $-q$ charge in the upper right would exert an electric force toward the upper right on a positive charge placed at X . The magnitude of this field effect is calculated as follows:

$$E = \sum k \frac{q}{r^2}$$

$$r^2 = \left(\frac{d}{2}\right)^2 + \left(\frac{d}{2}\right)^2 = \frac{d^2}{4} + \frac{d^2}{4} = \frac{d^2}{2}$$

$$E = 2k \frac{q}{\frac{d^2}{2}} = \frac{4kq}{d^2}$$

Electrostatics Conceptual Physics Problems

David Baud



Electrostatics Conceptual Physics Problems:

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