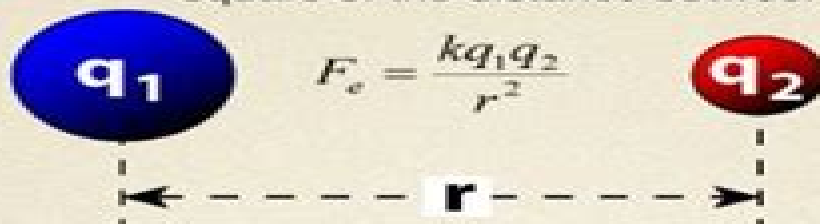


Coulomb's Law

Coulomb's Law gives the relationship between the electrostatic force present in between two charges when they are some distance apart from each other.

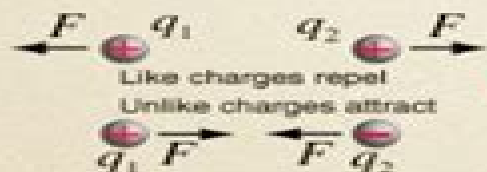
It states that " an electrostatic force is present between two charges, which is directly proportional to the product of magnitude of charges and is inversely proportional to square of the distance between them".



If "F" is the force present between two charges of magnitude "q1" and "q2" and "r" is the distance between them, then we can write it down as:

$$F = k \frac{q_1 \times q_2}{d^2}$$

where $k = \frac{1}{4\pi\epsilon_0} \approx 9 \times 10^9 \text{ N} \cdot \text{m}^2/\text{C}^2 = \text{Coulomb's constant}$



$$F = \frac{kq_1q_2}{r^2} = \frac{q_1q_2}{4\pi\epsilon_0 r^2} \quad \text{Coulomb's Law}$$

It shows that the electrostatic force will increase when magnitude of charges will increase, and electrostatic force will decrease whenever distance increases and vice versa.

Coulomb Law Questions And Answers

Patrick Vollmar



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