Answer on Question   #82404, Physics / Electromagnetism

Question:

1. Find the force between charges of +10.0 µC and -50.0 µC located 20.0 cm apart.

Solution:

In accordance with Coulomb's law $F = \dfrac{kq_1q_2}{r^2}$, respectively $F = -\dfrac{9 \cdot 10^9 \cdot 500 \cdot 10^{-12}}{0.2^2} = -112.5(N)$

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The answer:

F = - 112.5 N.