Answer on Question 49193, Physics, Electric Circuits Two pellets, each with a charge of 1 microcoulomb, are located 3 cm apart. What is the electric force between them?

Solution

Force can be computed as

$$F = k\frac{q_1 q_2}{r^2} = 9 \cdot 10^9 \frac{10^{-6} \cdot 10^{-6}}{0.03^2} = 10\, N$$