

Physics II

Electric Charge

Problem 1.- A helicopter accumulates $-340\mu\text{C}$ of electric charge due to friction with air.

Calculate:

- a) The number of excess electrons
- b) The mass of these electrons

Problem 2.- Calculate the total charge in space if the density were $\rho = 1 \frac{\mu\text{C}}{\text{m}^3}$ at the origin and dropped $\frac{1}{2}$ for each meter away from it.