

PROBLEM SOLUTIONS CHAPTER 1.

Solution 1.1. (a) Charge on one electron: -1.6019×10^{-19} C. This means that charge on 10^{13} electrons is: -1.6019×10^{-6} C. Net charge on sphere is: 1.6019×10^{-6} C (POSITIVE).

Solution 1.2. (a) 1 atom = -4.646×10^{-18} C. By proportionality, $64g = NA$ atoms.

$$3.1g = ? \text{ atoms} \Rightarrow 3.1g = \frac{3.1NA}{64} \text{ atoms.}$$

$$\text{Total Charge} = -4.646 \times 10^{-18} \frac{C}{\text{atom}} \times \frac{3.1 \times 6.023 \times 10^{23}}{64} \text{ atoms} = -1.3554 \times 10^{-5} C$$

(b) Total charge per atom is -4.646×10^{-18} C. Total charge per electron is -1.6019×10^{-19} C. Therefore, there are 29 electrons per atom of copper.

$$(c) 0.91 A = 0.91 C/s. \quad t = \frac{\Delta Q}{\Delta t} \Rightarrow \Delta t = \frac{\Delta Q}{i} = \frac{1.36 \times 10^5}{0.91} = 1.49 \times 10^5 \text{ sec.}$$

(d) We know there are $\frac{3.1NA}{64} = 2.9174 \times 10^{22}$ atoms in the penny. Removing 1 electron from

$0.05 \times \frac{3.1NA}{64}$ atoms means removing $0.05 \times \frac{3.1NA}{64}$ electrons. Therefore,

$$\text{Net charge} = 0.05 \times \frac{3.1NA}{64} \times 1.6019 \times 10^{-19} = 234C$$

$$\text{Solution 1.3 (a)} \quad 7.573 \times 10^{17} \times (-1.6019 \times 10^{-19}) = -0.1213C$$

$$(b) \text{ Current} = \frac{0.1213}{10^{-3}} = 121.3A \text{ flowing from right to left.}$$

(c) Again, use proportionality:

$$10A = \frac{x \times 1.6019 \times 10^{-19}}{60\text{sec}} \Rightarrow x = \frac{10 \times 60}{1.6019 \times 10^{-19}} = 3.75 \times 10^{21}$$

(d) $i(t) = \frac{dq}{dt} = 1 - e^{-5t}$ A. This is an exponential evolution with an initial value of 0, a final value of 1, and a time-constant of $1/5$ (signal reaches ~63% of it's final value in one time-constant).

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