

Answer on Question #71596, Physics / Other

How many electrons are contained in -3.8C charge?

Solution:

Charge on an electron is

$$e = -1.602 \times 10^{-19} C$$

By quantization property of charge, we have

$$Q = Ne = -3.8 C$$

So, the number of electrons N is

$$N = \frac{Q}{e} = \frac{-3.8}{-1.602 \times 10^{-19}} = 2.372 \times 10^{19}$$

Answer: 2.372×10^{19}

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