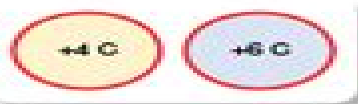


The electrostatic charge

- The charge on the electron – the most common magnitude charge for chemical ions and accelerated charged particles in physics, is too small to be a practical unit, especially in electricity.
- The unit we therefore use is the coulomb (C) for measuring electrostatic charge, named after Charles Augustin de Coulomb, a French physicist who did many of the early experiments on electrostatics.
 - One coulomb (C) is the charge equal to the total charge on 6.25×10^{18} electrons.
 - So, 1 coulomb = the charge on 6 250 000 000 000 000 electrons
 - Therefore the charge on 1 electron = $\frac{1}{6.25 \times 10^{18}} = -1.6 \times 10^{-19}$ C.
 - The charge on a proton is $+1.6 \times 10^{-19}$ C.

Sample Questions

1. How many electrons are involved in producing the following charged objects?
 - (a) Object A with a charge of $+4.0$ mC.
 - (b) Object B with a charge of -2.5 μ C.
 - (c) Object C with charge $+6 \times 10^{-6}$ C.
 - (d) Object D with charge -7.2 nC.
2. What is the charge on each of the following?
 - (a) Object which has a deficiency of 6.0×10^{18} electrons.
 - (b) Object which has an excess of 7.5×10^{18} electrons.
 - (c) Object which has a deficiency of 4.8×10^{18} electrons.
 - (d) Object which has an excess of 5×10^{17} electrons.
3. Two charged spheres of identical size carry charges of $+4$ C and $+6$ C as shown.



- (a) What happens if these spheres are touched together?
- (b) What will be the charges on each when they are separated again?
- (c) How many electrons move from which sphere to which sphere?

4. Two charged spheres of identical size carry charges of $+3$ C and -5 C as shown.



- (a) What happens if these spheres are touched together?
- (b) What will be the charges on each when they are separated again?
- (c) How many electrons move from which sphere to which sphere?

5. Two charged spheres of identical size carry charges of -1.6 C and -3.2 C as shown.



- (a) What happens if these spheres are touched together?
- (b) What will be the charges on each when they are separated again?
- (c) How many electrons move from which sphere to which sphere?

6. Three charged spheres of identical size carry charges of -2.0 C, $+6.0$ C and -1.0 C as shown.



Describe what happens if these spheres are all touched together?

Mastering Physics Solution Chapter

Robert R. Redfield



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