

Basic Concepts

Section 1.2 Solutions

1.1.1 If the current in an electric conductor is 3.4 A, how many coulombs of charge pass any point in a 30 s interval?

Solution:

$$I = 3.4 \text{ A}, \Delta t = 30 \text{ s}$$

$$Q = I \Delta t$$

$$Q = 102 \text{ C}$$

1.1.2 Determine the time interval required for a 0.3 A battery charger to deliver 4800 C.

Solution:

$$I = 0.3 \text{ A}, Q = 4800 \text{ C}$$

$$\Delta t = \frac{Q}{I}$$

$$\Delta t = 1600 \text{ s}$$

1.1.3 If a 30 V battery delivers 400 C in 5 s, find (a) the amount of charge delivered and (b) the current produced.

Solution:

$$V = 30 \text{ V}, \Delta W = 400 \text{ J in } 5 \text{ s}$$

$$\text{a. } \Delta Q = \frac{\Delta W}{V}$$

$$\Delta Q = 13.33 \text{ C}$$

$$\text{b. } I = \frac{\Delta Q}{\Delta t}, \Delta t = 5 \text{ s}$$

$$I = 2.67 \text{ A}$$

1.1.4 The current in a conductor is 1.7 A. How many coulombs of charge pass any point in a time interval of 3.3 min?

Solution:

$$I = 1.7 \text{ A}, \Delta t = 3.3 \text{ min} = 198 \text{ s}$$

$$Q = I \Delta t$$

$$Q = 336.6 \text{ C}$$

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