

Mastering Physics Solutions Chapter 21 Electric Current and Direct-Current Circuits

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Chapter 21 Electric Current and Direct-Current Circuits Q.1CQ

What is the direction of the electric current produced by an electron that falls toward the ground?

Solution:

By convention, the direction of electric current is always in the opposite direction to the motion of negative charge. If the electron falls toward the ground, then the direction of current is in the upward direction

Chapter 21 Electric Current and Direct-Current Circuits Q.1P

How many coulombs of charge are in one ampere-hour?

Solution:

One ampere (A) is defined simply as 1 coulomb per second

$$1A = \frac{1C}{s}$$

Now 1 ampere – hour = $1A.h$

$$= \left(\frac{1C}{s} \right) (1h) \times \left(\frac{3600s}{1h} \right)$$
$$= \boxed{3600 \text{ C}}$$