

Answer on Question #46219 – Physics – Other

Question: conventional current is the flow of

- a) negative charges;
- b) positive charges;
- c) both charges;
- d) neither type of charge.

Solution: the direction of conventional current is arbitrarily defined to be the same as the direction of the flow of positive charges. Therefore, in metals, which make up the wires and other conductors in most electrical circuits, the positive charges are immobile, and the charge carriers are electrons. Because the electrons carry negative charge, their motion in a metal conductor is in the direction opposite to that of conventional current. Thus, the correct answer is b) positive charges.

Answer:

b) positive charges.