

Answer on Question #50038, Physics, Electric Circuits

Task:

What is Simple Circuit ? And What Simple Circuit can do to our Lives ????????

Answer:

A simple circuit contains the minimum things needed to have a functioning electric circuit. A simple circuit requires three (3) things:

- A source of electrical potential difference or voltage. (typically a battery or electrical outlet)
- A conductive path which would allow for the movement of charges. (typically made of wire)
- An electrical resistance (resistor) which is loosely defined as any object that uses electricity to do work. (a light bulb, electric motor, heating element, speaker, etc.)

Despite being considered simple, they are useful and quite common. They exist as flashlights, doorbells, and many kitchen appliances. From a Physics point of view they display many of the rules that govern the behavior of electricity in circuits.

This is the simplest complete circuit in this collection of experiments: a battery and an incandescent lamp. Connect the lamp to the battery as shown in the illustration, and the lamp should light, assuming the battery and lamp are both in good condition and they are matched to one another in terms of voltage. If there is a "break" (discontinuity) anywhere in the circuit, the lamp will fail to light.

