

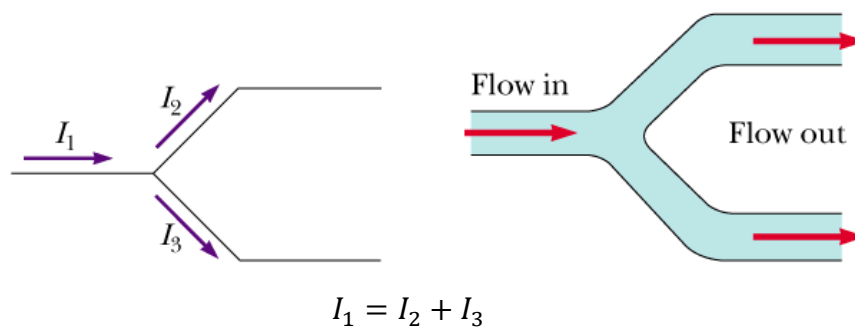
Answer on Question #46220, Physics, Other

Kirchhoff's junction rule is statement of conservation of

- mass
- energy
- charge
- momentum

Solution:

Kirchhoff's junction rule states that at any circuit junction, the sum of the currents flowing into and out of that junction are equal.



Kirchhoff's junction rule is an application of the principle of **conservation of electric charge**: current is flow of charge per time, and if current is constant, that which flows into a point in a circuit must equal that which flows out of it.

Answer: charge