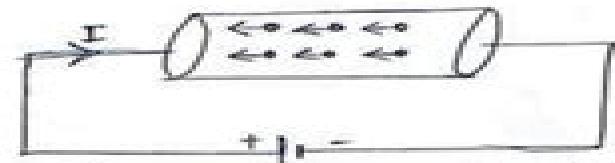


→ So, in a conductor, current flows in the direction opposite to the flow of electron. The universal convention that current is the net flow of positive charges, protons.

→ Mathematically,

$$i = \frac{dq}{dt} \Rightarrow q = \int_{-\infty}^t i dt$$



(Current due to flow of charge in a conductor)

→ Unit of current is Ampere. 1 Ampere = 1 Coulomb/sec.

→ As charge can vary with time in several ways, there are two types of current exist.

→ A direct current (dc) is a current that remains constant with time, whereas an alternating current (ac) is a current that varies sinusoidally with time.



Problems :-

① The total charge entering a terminal is given by $q = 5t \sin 4\pi t$ mC. Calculate the current at $t = 0.5$ s.

Sol:- $i = \frac{dq}{dt} = \frac{d}{dt} (5t \sin 4\pi t) = (5 \sin 4\pi t + 20\pi t \cos 4\pi t)$ mA

At $t = 0.5$ sec, $i = 5 \sin 2\pi + 10\pi \cos 2\pi = 0 + 10\pi = \boxed{31.42 \text{ mA}}$ (Ans)

② Determine the total charge entering a terminal betⁿ $t = 1$ s & $t = 2$ s, if the current passing to terminal is $i = (3t^2 - t)$ A.

Sol:- $q = \int_{t=1}^2 i dt = \int_{t=1}^2 (3t^2 - t) dt = \left(t^3 - \frac{t^2}{2} \right) \Big|_1^2 = (8 - 2) - (1 - \frac{1}{2}) = \boxed{5.5 \text{ C}}$ (Ans)

③ The total charge entering a terminal is $q = (30 - 10e^{-2t})$ mC, find the current at $t = 0.5$ s. [Ans: 7.36 mA]

Basic Electrical Engineering Notes

J. P. Tewari



Basic Electrical Engineering Notes:

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Notes - Municipal Reference and Research Center Municipal Reference and Research Center (New York, N.Y.),1929

Lecture Notes in Analogue Electronics Vančo Litovski,2023-10-31 This book is mostly devoted to amplification of analogue signals It covers different technologies bipolar MOS and MES and different frequency ranges but it always deals with small signals Analogue signals processed in electronic system may have a wide variety of origins Among them we have the signals coming from sensors electro mechanical electro magnetic electro chemical electro acoustic electro optical etc the signals coming from antennas being produced by another electronic system or are simply cosmic produced and signals that are generated within the electronic systems The common property of most of the signals is their small amplitude In many cases it is below a micro volt Since at the output of the system we most frequently need a high amplitude signal the main action undertaken in the electronic system before any further processing is to amplify

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