

→ 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,

$$i = \frac{dq}{dt} \Rightarrow q = \int_{t_0}^t i dt$$



(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]

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JR Anderson



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Table of Contents Basic Electrical Engineering Vtu Notes

1. Understanding the eBook Basic Electrical Engineering Vtu Notes
 - The Rise of Digital Reading Basic Electrical Engineering Vtu Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Basic Electrical Engineering Vtu Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Basic Electrical Engineering Vtu Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Basic Electrical Engineering Vtu Notes
 - Personalized Recommendations
 - Basic Electrical Engineering Vtu Notes User Reviews and Ratings
 - Basic Electrical Engineering Vtu Notes and Bestseller Lists
5. Accessing Basic Electrical Engineering Vtu Notes Free and Paid eBooks
 - Basic Electrical Engineering Vtu Notes Public Domain eBooks
 - Basic Electrical Engineering Vtu Notes eBook Subscription Services
 - Basic Electrical Engineering Vtu Notes Budget-Friendly Options

6. Navigating Basic Electrical Engineering Vtu Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Basic Electrical Engineering Vtu Notes Compatibility with Devices
 - Basic Electrical Engineering Vtu Notes Enhanced eBook Features
7. Enhancing Your Reading Experience
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 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Basic Electrical Engineering Vtu Notes
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 - Creating a Diverse Reading Collection Basic Electrical Engineering Vtu Notes
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 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Basic Electrical Engineering Vtu Notes
 - Setting Reading Goals Basic Electrical Engineering Vtu Notes
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Basic Electrical Engineering Vtu Notes
 - Fact-Checking eBook Content of Basic Electrical Engineering Vtu Notes
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements

- Interactive and Gamified eBooks

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