

- ④ The Current flowing through an element is $i = \begin{cases} 2A, & 0 < t < 1 \\ 2t^2 A, & t > 1 \end{cases}$
 Calculate the charge entering the element from $t=0$ to $t=2$ sec.
 [-Ans: 6.667C]

ELECTRIC POTENTIAL (OR VOLTAGE) :-

- Voltage (or potential difference) is the energy required to move a unit charge through an element.
- The voltage V_{ab} betⁿ two points 'a' & 'b' in an electric circuit is the energy needed to move a unit charge from 'a' to 'b'.

Mathematically,

$$V_{ab} = \frac{dw}{dq}$$



Where, w = Energy in Joules (J), q = charge in Coulombs (C).

- Unit of voltage is Volt named after physicist Alessandro Volta, who invented the first voltaic battery.
- 1 volt = 1 Joule/coulomb = 1 Newton meter/coulomb.
- Like electric current, a constant voltage is called a dc voltage and a sinusoidally time-varying voltage is called ac voltage.
- Voltage from a battery is dc voltage and ac voltage is produced by an ac electric generator.

POWER & ENERGY :-

- Power is the time rate of expanding or absorbing energy.
- Unit of Power is Watts (W).

Mathematically, $P = \frac{dw}{dt}$, where w = Energy in Joules (J)
 t = time in seconds (s).

$$\rightarrow P = \frac{dw}{dt} = \frac{dw}{dq} \times \frac{dq}{dt} = vi \Rightarrow \boxed{P = vi} \rightarrow \text{Instantaneous power.}$$

- If power has a '+' sign, then power is being delivered to or absorbed by the element, whereas if power has '-' sign, then power is being supplied by the element.

Passive Sign Convention :-

- It states that, when current enters through the positive terminal of an element, ~~and~~ $p = +vi$, if the current enters through the negative terminal, $p = -vi$.

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RC Schank



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Table of Contents Electrical Engineering N2 Course Notes

1. Understanding the eBook Electrical Engineering N2 Course Notes
 - The Rise of Digital Reading Electrical Engineering N2 Course Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Electrical Engineering N2 Course 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 Electrical Engineering N2 Course Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electrical Engineering N2 Course Notes
 - Personalized Recommendations
 - Electrical Engineering N2 Course Notes User Reviews and Ratings
 - Electrical Engineering N2 Course Notes and Bestseller Lists
5. Accessing Electrical Engineering N2 Course Notes Free and Paid eBooks
 - Electrical Engineering N2 Course Notes Public Domain eBooks
 - Electrical Engineering N2 Course Notes eBook Subscription Services

- Electrical Engineering N2 Course Notes Budget-Friendly Options
- 6. Navigating Electrical Engineering N2 Course Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Electrical Engineering N2 Course Notes Compatibility with Devices
 - Electrical Engineering N2 Course Notes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electrical Engineering N2 Course Notes
 - Highlighting and Note-Taking Electrical Engineering N2 Course Notes
 - Interactive Elements Electrical Engineering N2 Course Notes
- 8. Staying Engaged with Electrical Engineering N2 Course Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electrical Engineering N2 Course Notes
- 9. Balancing eBooks and Physical Books Electrical Engineering N2 Course Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electrical Engineering N2 Course Notes
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Electrical Engineering N2 Course Notes
 - Setting Reading Goals Electrical Engineering N2 Course Notes
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electrical Engineering N2 Course Notes
 - Fact-Checking eBook Content of Electrical Engineering N2 Course 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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