

$$\therefore dl = v \times dt \quad \text{--- (1)}$$

2. (b) as

$$dq = n A v \cdot dl \cdot q$$

$$dq = n A q v \cdot dl \quad \text{--- (2)}$$

As,

$$I = \frac{dq}{dt} \quad \text{--- (3)}$$

Equating (1) and (3)

$$I = \frac{n A q v \cdot dl}{dt}$$

$$I = n A q v$$

So,

$$v = \frac{I}{n A q}$$

Substituting values

$$v = \frac{1}{(1 \times 10^8)(1 \times 10^{-9})(1.6 \times 10^{-19})}$$

$$= \frac{1}{1.6 \times 10^{-10}} \times \frac{1}{10^4}$$

$$= 0.625 \times 10^{-4}$$

$$= 6.25 \times 10^{-5} \text{ ms}$$

$$q = 5t e^{-10^3 t} \text{ C} \quad \text{--- (1)}$$

a) $i = 2$

Differentiating (1) w.r.t. 't'

$$\frac{dq}{dt} = \frac{d}{dt} (5t e^{-10^3 t})$$

$$= 5 \cdot \frac{d}{dt} (t e^{-10^3 t})$$

$$= 5 \left[t \cdot \frac{d}{dt} (e^{-10^3 t}) + e^{-10^3 t} \cdot \frac{d}{dt} (t) \right]$$

$$= 5 \left[t \cdot e^{-10^3 t} (-10^3) + e^{-10^3 t} \cdot 1 \right]$$

$$= 5 \left[e^{-10^3 t} (-10^3 t + 1) \right]$$

$$i = 5 e^{-10^3 t} (1 - 10^3 t) \quad \text{--- (2)}$$

b) Now, differentiating (2) w.r.t. 't'

$$\frac{di}{dt} = \frac{d}{dt} [5 e^{-10^3 t} (1 - 10^3 t)]$$

$$= 5 e^{-10^3 t} (-10^3) + (1 - 10^3 t) (5 e^{-10^3 t})$$

$$= 5 e^{-10^3 t} \times (-10^3) [1 + 1 - 10^3 t]$$

$$\frac{di}{dt} = -5 \times 10^3 \times e^{-10^3 t} [2 - 10^3 t] =$$

Again differentiating w.r.t. 't'

$$\frac{d^2 i}{dt^2} = \frac{d}{dt} [-5 \times 10^3 \times e^{-10^3 t} (2 - 10^3 t)]$$

Electric Circuits Fundamentals Franco Solutions Manual

Yijin Wang



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Table of Contents Electric Circuits Fundamentals Franco Solutions Manual

1. Understanding the eBook Electric Circuits Fundamentals Franco Solutions Manual
 - The Rise of Digital Reading Electric Circuits Fundamentals Franco Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Electric Circuits Fundamentals Franco Solutions Manual
 - 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 Electric Circuits Fundamentals Franco Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Electric Circuits Fundamentals Franco Solutions Manual

- Personalized Recommendations
- Electric Circuits Fundamentals Franco Solutions Manual User Reviews and Ratings
- Electric Circuits Fundamentals Franco Solutions Manual and Bestseller Lists
- 5. Accessing Electric Circuits Fundamentals Franco Solutions Manual Free and Paid eBooks
 - Electric Circuits Fundamentals Franco Solutions Manual Public Domain eBooks
 - Electric Circuits Fundamentals Franco Solutions Manual eBook Subscription Services
 - Electric Circuits Fundamentals Franco Solutions Manual Budget-Friendly Options
- 6. Navigating Electric Circuits Fundamentals Franco Solutions Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Electric Circuits Fundamentals Franco Solutions Manual Compatibility with Devices
 - Electric Circuits Fundamentals Franco Solutions Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Electric Circuits Fundamentals Franco Solutions Manual
 - Highlighting and Note-Taking Electric Circuits Fundamentals Franco Solutions Manual
 - Interactive Elements Electric Circuits Fundamentals Franco Solutions Manual
- 8. Staying Engaged with Electric Circuits Fundamentals Franco Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Electric Circuits Fundamentals Franco Solutions Manual
- 9. Balancing eBooks and Physical Books Electric Circuits Fundamentals Franco Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Electric Circuits Fundamentals Franco Solutions Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Electric Circuits Fundamentals Franco Solutions Manual
 - Setting Reading Goals Electric Circuits Fundamentals Franco Solutions Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Electric Circuits Fundamentals Franco Solutions Manual

- Fact-Checking eBook Content of Electric Circuits Fundamentals Franco Solutions Manual
- 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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