

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

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

$$v = \frac{1}{(1 \times 10^{25})(1 \times 10^{-9})(1.6 \times 10^{-19})}$$

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

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

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

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

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 Circuit Fundamentals By Sergio Franco Solution Manual

**Charles Alexander, Matthew Sadiku**



## **Electric Circuit Fundamentals By Sergio Franco Solution Manual:**

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**Electronic Devices and Circuit Fundamentals, Solution Manual** Dale R. Patrick,Stephen W. Fardo,Ray E. Richardson,Vigyan Chandra,2023-04-03 This book is the solution manual for Electronic Devices and Circuit Fundamentals

**Electric Circuits Fundamentals** Thomas L. Floyd,2001 CD ROM contains CircuitMaker 6 2 Electronics Workbench files  
**Solutions Manual (Chapters 10-19)** James William Nilsson,Susan A. Riedel,1995-09-28      **Electric Circuit Analysis**

David E. Johnson,John L. Hilburn,Johnny Ray Johnson,1989      *Electric Circuits Solutions Manual* James William Nilsson,Susan A. Riedel,2000-12-15      [Solution Manual Electric Circuit Analysis](#) Robert A. Bartkowiak,1985-01-01

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