

CHAPTER 1

P.P.1.1 A proton has 1.602×10^{-19} C. Hence, 2 million protons have
 $+1.602 \times 10^{-19} \times 2 \times 10^6 = \underline{3.204 \times 10^{-13} \text{ C}}$

P.P.1.2 $i = dq/dt = -10(-2)e^{-2t} \text{ mA}$
 At $t = 0.5 \text{ sec}$, $i = 20e^{-1} = \underline{7.358 \text{ mA}}$

P.P.1.3 $q = \int i dt = \int_0^2 2 dt + \int_2^3 2t^2 dt = 2t \Big|_0^2 + (2/3)t^3 \Big|_2^3$
 $= 2 + 14/3 = \underline{6.667 \text{ C}}$

P.P.1.4 (a) $V_{ab} = w/q = -30/2 = \underline{-15 \text{ V}}$

The negative sign indicates that point a is at higher potential than point b.

(b) $V_{ab} = w/q = -30/-6 = \underline{5 \text{ V}}$

P.P.1.5 (a) $v = 2 i = 10 \cos (60 \pi t)$
 $p = v i = 50 \cos^2 (60 \pi t)$

At $t = 5 \text{ ms}$, $p = 50 \cos^2 (60 \pi \times 5 \times 10^{-3}) = 50 \cos^2 (0.3 \pi)$
 $= \underline{17.27 \text{ watts}}$

(b) $v = 10 + 5 \int_0^t i dt = 10 + \int_0^t 25 \cos 60 \pi t dt = 10 + \frac{25}{60\pi} \sin 60 \pi t$

$p = vi = 5 \cos (60 \pi t) [10 + (25/(60 \pi)) \sin (60 \pi t)]$

At $t = 5 \text{ ms}$, $p = 5 \cos (0.3\pi) [10 + (25/(60 \pi)) \sin (0.3 \pi)]$
 $= \underline{29.7 \text{ watts}}$

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Rose Army



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Table of Contents Practice Problems Of Sadiku 4th Edition

1. Understanding the eBook Practice Problems Of Sadiku 4th Edition
 - The Rise of Digital Reading Practice Problems Of Sadiku 4th Edition
 - Advantages of eBooks Over Traditional Books
2. Identifying Practice Problems Of Sadiku 4th Edition
 - 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 Practice Problems Of Sadiku 4th Edition
 - User-Friendly Interface
4. Exploring eBook Recommendations from Practice Problems Of Sadiku 4th Edition
 - Personalized Recommendations
 - Practice Problems Of Sadiku 4th Edition User Reviews and Ratings
 - Practice Problems Of Sadiku 4th Edition and Bestseller Lists
5. Accessing Practice Problems Of Sadiku 4th Edition Free and Paid eBooks
 - Practice Problems Of Sadiku 4th Edition Public Domain eBooks
 - Practice Problems Of Sadiku 4th Edition eBook Subscription Services
 - Practice Problems Of Sadiku 4th Edition Budget-Friendly Options

6. Navigating Practice Problems Of Sadiku 4th Edition eBook Formats
 - ePub, PDF, MOBI, and More
 - Practice Problems Of Sadiku 4th Edition Compatibility with Devices
 - Practice Problems Of Sadiku 4th Edition Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Practice Problems Of Sadiku 4th Edition
 - Highlighting and Note-Taking Practice Problems Of Sadiku 4th Edition
 - Interactive Elements Practice Problems Of Sadiku 4th Edition
8. Staying Engaged with Practice Problems Of Sadiku 4th Edition
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Practice Problems Of Sadiku 4th Edition
9. Balancing eBooks and Physical Books Practice Problems Of Sadiku 4th Edition
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Practice Problems Of Sadiku 4th Edition
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Practice Problems Of Sadiku 4th Edition
 - Setting Reading Goals Practice Problems Of Sadiku 4th Edition
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Practice Problems Of Sadiku 4th Edition
 - Fact-Checking eBook Content of Practice Problems Of Sadiku 4th Edition
 - 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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