

EE - 419 BASIC ELECTRICAL ENGINEERING
PROBLEM SET # 2

1. THREE CAPACITORS $C_1 = 5\mu\text{F}$ $C_2 = 10\mu\text{F}$ AND $C_3 = 20\mu\text{F}$ ARE CONNECTED IN PARALLEL ACROSS A 150V SOURCE. DETERMINE THE (a) TOTAL CAPACITANCE (b) CHARGE ON EACH CAPACITOR (c) THE TOTAL ENERGY STORED IN PARALLEL COMBINATION.

GIVEN:

$$C_1 = 5\mu\text{F}$$

$$C_3 = 20\mu\text{F}$$

$$C_2 = 10\mu\text{F}$$

$$V = 150\text{V}$$

SOLUTION:

$$\begin{aligned} \text{a) } C_{\text{TOTAL}} &= C_1 + C_2 + C_3 \\ &= (5 + 10 + 20)\mu\text{F} \\ &= \boxed{35\mu\text{F}} \end{aligned}$$

$$\begin{aligned} \text{b) } Q_1 &= C_1 V = 5 \times 10^{-6} \text{ F } (150 \text{ V}) \\ &= \boxed{0.00075 \text{ C}} \end{aligned}$$

$$\begin{aligned} Q_2 &= C_2 V = 10 \times 10^{-6} \text{ F } (150 \text{ V}) \\ &= \boxed{0.0015 \text{ C}} \end{aligned}$$

$$\begin{aligned} Q_3 &= C_3 V = 20 \times 10^{-6} \text{ F } (150 \text{ V}) \\ &= \boxed{0.003 \text{ C}} \end{aligned}$$

$$\begin{aligned} \text{c) } W &= \left(\frac{1}{2}\right) C_{\text{TOTAL}} V^2 \\ &= \left(\frac{1}{2}\right) (35 \times 10^{-6} \text{ F}) (150 \text{ V})^2 \\ &= \boxed{0.39375 \text{ J}} \end{aligned}$$

Electrical Engineering Problem Set

David E. Johnson



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Table of Contents Electrical Engineering Problem Set

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

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