

Chapter 14

CAPACITORS IN AC AND DC CIRCUITS

So far, all we have discussed have been electrical elements in which the voltage across the element is proportional to the current through the element (i.e., elements like the resistor that obey Ohm's Law). There are electrical elements that do not follow this pattern. One of these elements is the capacitor--a critter that has very different characteristics when found in an AC circuit as opposed to a DC circuit. This chapter is devoted to that lowly creature.

A.) Capacitors in General:

1.) The circuit symbol for the capacitor (see Figures 14.1a and 14.1b) evokes a feeling for what a capacitor really is. Physically, it is no more than two plates (the symbol depicts the side view) *that do not touch* (there is normally insulation placed between the two plates to insure no contact). In other words, a capacitor in a circuit technically effects a break in the circuit.



Note: Although there are AC capacitors made to take high voltage at either terminal, DC capacitors have definite high and low voltage sides. When a designer of circuitry wants to specify a DC capacitor, he or she uses the symbol shown in Figure 14.1b. The *straight side* of that symbol is designated the *high voltage side* (the positive terminal) while the *curved side* is designated the *low voltage side*. We will use either symbol in DC situations.

2.) A circuit element that does not allow charge to freely flow through it probably sounds like a fairly useless device. In fact, capacitors do allow current to flow in the circuit under the right conditions.

3.) Consider a circuit in which there is an initially uncharged capacitor, a DC power supply, a resistor, and an initially open switch (this is commonly called an *RC circuit*).

a.) When the switch is first closed, neither plate has charge on it. This means there is no voltage difference between the two. As the right-hand

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Harry Alex Romanowitz



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Table of Contents Chapter 14 Capacitors In Ac And Dc Circuits

1. Understanding the eBook Chapter 14 Capacitors In Ac And Dc Circuits
 - The Rise of Digital Reading Chapter 14 Capacitors In Ac And Dc Circuits
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 14 Capacitors In Ac And Dc Circuits
 - 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 Chapter 14 Capacitors In Ac And Dc Circuits
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 14 Capacitors In Ac And Dc Circuits
 - Personalized Recommendations

- Chapter 14 Capacitors In Ac And Dc Circuits User Reviews and Ratings
- Chapter 14 Capacitors In Ac And Dc Circuits and Bestseller Lists
- 5. Accessing Chapter 14 Capacitors In Ac And Dc Circuits Free and Paid eBooks
 - Chapter 14 Capacitors In Ac And Dc Circuits Public Domain eBooks
 - Chapter 14 Capacitors In Ac And Dc Circuits eBook Subscription Services
 - Chapter 14 Capacitors In Ac And Dc Circuits Budget-Friendly Options
- 6. Navigating Chapter 14 Capacitors In Ac And Dc Circuits eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 14 Capacitors In Ac And Dc Circuits Compatibility with Devices
 - Chapter 14 Capacitors In Ac And Dc Circuits Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 14 Capacitors In Ac And Dc Circuits
 - Highlighting and Note-Taking Chapter 14 Capacitors In Ac And Dc Circuits
 - Interactive Elements Chapter 14 Capacitors In Ac And Dc Circuits
- 8. Staying Engaged with Chapter 14 Capacitors In Ac And Dc Circuits
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 14 Capacitors In Ac And Dc Circuits
- 9. Balancing eBooks and Physical Books Chapter 14 Capacitors In Ac And Dc Circuits
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 14 Capacitors In Ac And Dc Circuits
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 14 Capacitors In Ac And Dc Circuits
 - Setting Reading Goals Chapter 14 Capacitors In Ac And Dc Circuits
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 14 Capacitors In Ac And Dc Circuits
 - Fact-Checking eBook Content of Chapter 14 Capacitors In Ac And Dc Circuits

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
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