

Chapter 20

Electric Potential and Capacitance

CHAPTER OUTLINE

20.1	Potential Difference and Electric Potential
20.2	Potential Differences in a Uniform Electric Field
20.3	Electric Potential and Electric Potential Energy Due to Point Charges
20.4	Obtaining Electric Field from Electric Potential
20.5	Electric Potential Due to Continuous Charge Distributions
20.6	Electric Potential of a Charged Conductor
20.7	Capacitance
20.8	Combinations of Capacitors
20.9	Energy Stored in a Charged Capacitor
20.10	Capacitors with Dielectrics
20.11	Contact Connection—The Atmosphere as a Capacitor

ANSWERS TO QUESTIONS

- Q20.1** When one object B with electric charge is immersed in the electric field of another charge or charges A , the system possesses electric potential energy. The energy can be measured by seeing how much work the field does on the charge B as it moves to a reference location. We choose not to visualize A 's effect on B as an action-at-a-distance, but as the result of a two-step process: Charge A creates electric potential throughout the surrounding space. Then the potential acts on B to inject the system with energy.
- Q20.2** The potential energy increases. When an outside agent makes it move in the direction of the field, the charge moves to a region of lower electric potential. Then the product of its negative charge with a lower number of volts gives a higher number of joules. Keep in mind that a negative charge feels an electric force in the opposite direction to the field, while the potential is the work done on the charge to move it in a field per unit charge.
- Q20.3** To move like charges together from an infinite separation, at which the potential energy of the system of two charges is zero, requires work to be done on the system by an outside agent. Hence energy is stored, and potential energy is positive. As charges with opposite signs move together from an infinite separation, energy is released, and the potential energy of the set of charges becomes negative.
- Q20.4** If there were a potential difference between two points on the conductor, the free electrons in the conductor would move until the potential difference disappears.
- Q20.5** A sharp point in a charged conductor would imply a large electric field in that region. An electric discharge could most easily take place at that sharp point.
- Q20.6** Use a conductive box to shield the equipment. Any stray electric field will cause charges on the outer surface of the conductor to rearrange and cancel the stray field inside the volume it encloses.

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Table of Contents Chapter 20 Physics Solutions Manual

1. Understanding the eBook Chapter 20 Physics Solutions Manual
 - The Rise of Digital Reading Chapter 20 Physics Solutions Manual
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 20 Physics 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 Chapter 20 Physics Solutions Manual
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 20 Physics Solutions Manual
 - Personalized Recommendations
 - Chapter 20 Physics Solutions Manual User Reviews and Ratings

- Chapter 20 Physics Solutions Manual and Bestseller Lists
- 5. Accessing Chapter 20 Physics Solutions Manual Free and Paid eBooks
 - Chapter 20 Physics Solutions Manual Public Domain eBooks
 - Chapter 20 Physics Solutions Manual eBook Subscription Services
 - Chapter 20 Physics Solutions Manual Budget-Friendly Options
- 6. Navigating Chapter 20 Physics Solutions Manual eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 20 Physics Solutions Manual Compatibility with Devices
 - Chapter 20 Physics Solutions Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 20 Physics Solutions Manual
 - Highlighting and Note-Taking Chapter 20 Physics Solutions Manual
 - Interactive Elements Chapter 20 Physics Solutions Manual
- 8. Staying Engaged with Chapter 20 Physics Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 20 Physics Solutions Manual
- 9. Balancing eBooks and Physical Books Chapter 20 Physics Solutions Manual
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 20 Physics Solutions Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 20 Physics Solutions Manual
 - Setting Reading Goals Chapter 20 Physics Solutions Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 20 Physics Solutions Manual
 - Fact-Checking eBook Content of Chapter 20 Physics 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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