

NAME _____ DATE _____ CLASS _____

Problem 18C (Capacitance)

- 1.** To improve the short-range acceleration of an electric car, a capacitor may be used. Charge is stored on the capacitor's surface between a porous composite electrode and electrolytic fluid. Such a capacitor can provide a potential difference of nearly 3.00×10^2 V. If the energy stored in this capacitor is 17.1 kJ, what is the capacitance?
- 2.** A huge capacitor bank powers the large Nova laser at Lawrence Livermore National Lab, in California. Each capacitor can store 1450 J of electrical potential energy when a potential difference of 1.0×10^4 V is applied across its plates. What is the capacitance of this capacitor?
- 3.** Air becomes a conductor if the electric field across it exceeds 3.0×10^6 V/m. What is the maximum charge that can be accumulated on an air-filled capacitor with a 0.2 mm plate separation and a plate area equal to the area of the world's largest painting (6.7×10^3 m²)?
- 4.** The world's largest hamburger, which was made in Wyoming, had a radius of about 3.1 m. Suppose that you build an air-filled parallel-plate capacitor with an area equal to that of the hamburger and a plate separation of 1.0 mm. The largest electric field that air can sustain before its insulating properties break down and it begins conducting electricity is 3.0 MV/m. What is the maximum charge that you will be able to store in the capacitor?
- 5.** In 1987, an ultraviolet flash of light was produced at the Los Alamos National Lab. For 1.0 ps, the power of the flash was 5.0×10^{15} W. If all of this energy was provided by a battery of charged capacitors with a total capacitance of 0.22 F, what was the potential difference across these capacitors?
- 6.** The International Exposition Center in Cleveland, Ohio, covers 2.32×10^5 m². If a capacitor with this same area and a plate separation of 1.5 cm is charged to 0.64 mC, what is the energy stored in the capacitor?
- 7.** In 1990, a pizza with a radius of 18.0 cm was made in South Africa. Suppose you make an air-filled capacitor with parallel plates whose area is equal to that of the pizza. If a potential difference of 575 V is applied across this capacitor, it will store just 3.31 J of electrical potential energy. What are the capacitance and plate separation of this capacitor?
- 8.** When the keys on a computer keyboard are pressed, the plate separation of small parallel-plate capacitors mounted under the keys changes from about 5.00 mm to 0.30 mm. This causes a change in capacitance, which triggers the electronic circuitry. If the area of the plates is 1.20 cm², find the change in the capacitance. Is it positive or negative?
- 9.** Tristan da Cunha, a remote island inhabited by a few hundred people, has an area of 98 km². Suppose a 0.20 F parallel-plate capacitor with a plate area equal to 98 km² is built. What is the plate separation?
- 10.** The largest apple pie ever made was rectangular in shape and had an area of 7.0 m x 12.0 m. Consider a parallel-plate capacitor with this area. Assume that the capacitor is filled with air and the distance between the plates is 1.0 mm.
 - a.** What is the capacitance of the capacitor?
 - b.** What potential difference would have to be placed across the capacitor for it to store 1.0 J of electrical potential energy?

Physics 18c Capacitance

DC Pandey



Physics 18c Capacitance:

This book delves into Physics 18c Capacitance. Physics 18c Capacitance is a crucial topic that must be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Physics 18c Capacitance, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Physics 18c Capacitance
- Chapter 2: Essential Elements of Physics 18c Capacitance
- Chapter 3: Physics 18c Capacitance in Everyday Life
- Chapter 4: Physics 18c Capacitance in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, the author will provide an overview of Physics 18c Capacitance. This chapter will explore what Physics 18c Capacitance is, why Physics 18c Capacitance is vital, and how to effectively learn about Physics 18c Capacitance.
3. In chapter 2, the author will delve into the foundational concepts of Physics 18c Capacitance. This chapter will elucidate the essential principles that must be understood to grasp Physics 18c Capacitance in its entirety.
4. In chapter 3, this book will examine the practical applications of Physics 18c Capacitance in daily life. This chapter will showcase real-world examples of how Physics 18c Capacitance can be effectively utilized in everyday scenarios.
5. In chapter 4, the author will scrutinize the relevance of Physics 18c Capacitance in specific contexts. This chapter will explore how Physics 18c Capacitance is applied in specialized fields, such as education, business, and technology.
6. In chapter 5, the author will draw a conclusion about Physics 18c Capacitance. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Physics 18c Capacitance.

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