

Chapter 22

22.3 What is the magnitude of a point charge whose electric field 50 cm away has the magnitude of 2.00 N/C.

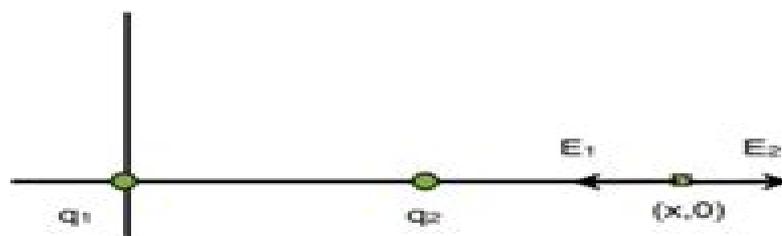
$$\begin{aligned} E &= \frac{q}{4\pi\epsilon_0 r^2} \\ q &= 4\pi\epsilon_0 r^2 E \\ &= 5.56 \times 10^{-11} \text{ C} \end{aligned}$$

22.5 An atom of plutonium-239 has a nuclear radius of 6.64 fm and atomic number $Z=94$. Assuming that the positive charge is distributed uniformly within the nucleus, what are the magnitude and direction of the electric field at the surface of the nucleus due to the positive charge.

Outside a uniformly charged sphere, the field looks like that of a point charge at the center of the sphere.

$$\begin{aligned} E &= \frac{q}{4\pi\epsilon_0 r^2} \\ &= \frac{94 \cdot 1.6 \times 10^{-19} \text{ C}}{4\pi\epsilon_0 (6.64 \times 10^{-15} \text{ m})^2} \\ &= 3.07 \times 10^{21} \text{ N/C} \end{aligned}$$

22.8 In Fig. 22-31, particle 1 of charge $q_1 = -5q$ and particle 2 of charge $q_2 = +2q$ are fixed to an x-axis (a) As a multiple of distance L , at what coordinate on the axis is the net electric field of the particles zero? (a) Sketch the net electric field lines.



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Table of Contents Chapter 22 Homework Solutions Physics Upenn

1. Understanding the eBook Chapter 22 Homework Solutions Physics Upenn
 - The Rise of Digital Reading Chapter 22 Homework Solutions Physics Upenn
 - Advantages of eBooks Over Traditional Books
2. Identifying Chapter 22 Homework Solutions Physics Upenn
 - 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 22 Homework Solutions Physics Upenn
 - User-Friendly Interface
4. Exploring eBook Recommendations from Chapter 22 Homework Solutions Physics Upenn
 - Personalized Recommendations
 - Chapter 22 Homework Solutions Physics Upenn User Reviews and Ratings

- Chapter 22 Homework Solutions Physics Upenn and Bestseller Lists
- 5. Accessing Chapter 22 Homework Solutions Physics Upenn Free and Paid eBooks
 - Chapter 22 Homework Solutions Physics Upenn Public Domain eBooks
 - Chapter 22 Homework Solutions Physics Upenn eBook Subscription Services
 - Chapter 22 Homework Solutions Physics Upenn Budget-Friendly Options
- 6. Navigating Chapter 22 Homework Solutions Physics Upenn eBook Formats
 - ePub, PDF, MOBI, and More
 - Chapter 22 Homework Solutions Physics Upenn Compatibility with Devices
 - Chapter 22 Homework Solutions Physics Upenn Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Chapter 22 Homework Solutions Physics Upenn
 - Highlighting and Note-Taking Chapter 22 Homework Solutions Physics Upenn
 - Interactive Elements Chapter 22 Homework Solutions Physics Upenn
- 8. Staying Engaged with Chapter 22 Homework Solutions Physics Upenn
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Chapter 22 Homework Solutions Physics Upenn
- 9. Balancing eBooks and Physical Books Chapter 22 Homework Solutions Physics Upenn
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Chapter 22 Homework Solutions Physics Upenn
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Chapter 22 Homework Solutions Physics Upenn
 - Setting Reading Goals Chapter 22 Homework Solutions Physics Upenn
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Chapter 22 Homework Solutions Physics Upenn
 - Fact-Checking eBook Content of Chapter 22 Homework Solutions Physics Upenn
 - 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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