

#### HOMEWORK 4

Mastering Physics HW due online on Friday, 2/17/2023 at 11:59PM.

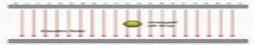
Hand-written solutions to the following questions are due on Wednesday 2/15/2023, on paper, at the beginning of your recitation session.

1) (40 pts) In the "Millikan oil drop experiment", an atomizer (a sprayer with a fine nozzle) is used to introduce many tiny droplets of oil between two oppositely charged parallel metal places held in a vacuum chamber. The original apparatus and a simplified schematic are shown. The two places are just above and below the small magnifying scope sticking out on the right of the apparatus. The emire apparatus is about 1 meter high.

Some of the droplets pick up one or more excess electrons as they are sprayed into the chamber. The charge on the plates is adjusted so that the electric force on these excess electrons exactly balances the weight of the whole droplet. The idea is to look for a droplet that requires the smallest electric force, and assume that it has only one excess electron. This lets the observer measure the charge on the electron. Estimate the radius of an oil drop that would be balanced by a voltage difference of 10 kV (10,000 Volts). Draw a free body diagram to support your answer, and do not use a calculator!

Hint: you may find it useful to know that the density of water is 1 a/cm². Oil is not water, however.





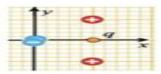
2) (50 pts total) In this problem we will explore the electric effects produced by a neutral molecule on charges nearby. We will consider a 'toy' (very simple) model of a water molecule that has charge -2e localized on the oxygen atom and charges of +e localized on each hydrogen atom. In addition, for simplicity of calculations, we will consider the OH bonds to be perpendicular to each other as shown in the figure.



A. (20 pts) First consider the electrostatic potential, F, produced by this molecule along its line of symmetry (aka the x-axis). A positive test charge, q, is exploring the electrostatic potential along the positive x axis. If the locations of the charges in the water molecule are located as shown, which of the following equations could correctly represent the potential measured by the test charge? For each option that doesn't work, explain why it doesn't work, and identify the electrostatic property it could represent instead.

a. 
$$V = 2 \frac{kqe}{\sqrt{(x-d)^2 + d^2}} - 2 \frac{kqe}{\sqrt{x^2}}$$
  
b.  $V = 2 \frac{ke}{\sqrt{(x-d)^2 + d^2}} - 2 \frac{ke}{\sqrt{x^2}}$   
c.  $V = 2 \frac{kqe}{(x-d)^2 + d^2} - 2 \frac{kqe}{x^2}$   
d.  $V = 2 \frac{ke}{(x-d)^2 + d^2} - 2 \frac{ke}{x^2}$ 

B. (10 pts) Now consider the electric field that the test charge would measure. Suppose that the test charge is negative and is moved to the position between the H atoms shown in the figure at right. What can you say about the electric potential and the electric field measured by the negative test charge? Explain your reasoning. Support your answer by treating the three water molecule atoms as individual point sources and calculating the total electric potential F at the test charge a location. Other this is not the same situation as in the previous question, but it's very possible to leverage.



# **Mastering Physics Answers Chapter2**

David Halliday, Robert Resnick, Jearl Walker

#### **Mastering Physics Answers Chapter2:**

Mastering Physics Martin Harrison, Frank McKim, 1999-11-11 This new edition of Mastering Physics has been completely updated and rewritten to give all the information needed to learn and master the essentials of physics It is a self contained clearly explained course for individual study or classroom use which requires no prior knowledge The book is highly illustrated throughout to show the importance of physics in the natural world as well as in such fields as athletics engineering medicine and music Questions and examples are also included throughout covering a broad range of topics such as environmental issues motor racing and space flight **Introductory Physics with Algebra as a Second Language** Stuart E. Loucks, 2006-08-04 Many students find it difficult to master the fundamental skills that are essential to succeeding in physics Now with this helpful book they ll quickly learn how to break physics down into basic steps Author Stuart Loucks presents the material in a way that will motivate and empower them He offers clear explanations of key concepts while examining the fundamental topics and approaches needed to solve algebra based physics problems Understand the basic language of physics Introductory Physics with Algebra as a Second LanguageTM will help you make sense of your textbook and class notes so that you can use them more effectively The text explains key topics in algebra based physics in clear easy to understand language Break problems down into simple steps Introductory Physics with Algebra as a Second LanguageTM teaches you to recognize details that tell you how to begin new problems You will learn how to effectively organize the information decide on the correct equations and ultimately solve the problem Learn how to tackle unfamiliar physics problems Stuart Loucks coaches you in the fundamental concepts and approaches needed to set up and solve the major problem types As you learn how to deal with these kinds of problems you will be better equipped to tackle problems you have never seen before Improve your problem solving skills You ll learn timesaving problem solving strategies that will help you focus your efforts and avoid potential pitfalls Mastering LangChain Sanath Raj B Narayan, Nitin Agarwal, 2025-10-15 This book provides a comprehensive exploration of LangChain empowering you to effectively harness large language models LLMs for Gen AI applications It focuses on practical implementation and techniques making it a valuable resource for learning LangChain The book starts with foundational topics such as environment setup and building basic chains then delves into key components such as prompt templates tool integration and memory management You will also explore practical topics such as output parsing embedding models and developing chatbots and retrieval augmented generation RAG systems Additional chapters focus on integrating LangChain with other AI tools and deploying applications while emphasizing best practices for AI ethics and performance By the time you finish this book you ll have the know how to confidently build Generative AI solutions using LangChain Whether you re exploring practical applications or curious about the latest trends this guide gives you the tools and insights to solve real world AI problems You ll be ready to design smart data driven applications and rethink how you approach Generative AI What You Will Learn Understand the core ideas

architecture and essential features of the LangChain framework Create advanced LLM driven workflows and applications that address real world challenges Develop robust Retrieval Augmented Generation RAG systems using LangChain vector databases and proven best practices for retrieving and generating high quality responses Who This Book Is For Data scientists and AI enthusiasts with basic Python skills who want to use LangChain for advanced development and Python developers interested in building data responsive applications with large language models LLMs Mastering Physics for IIT-IEE Volume - I Rathi Rakesh. Physics for IIT IEE Mastering Physics for IIT-JEE Volume - II Rathi Rakesh, Physics Advances in Intelligent Web Mastering - 3 Elena Mugellini, Piotr S. Szczepaniak, Maria Chiara Pettenati, Maria Sokhn, 2011-01-16 The Atlantic Web Intelligence Conference brings together scientists engineers computer users and students to exchange and share their experiences new ideas and research results about all aspects theory applications and tools of intelligent methods applied to Web based systems and to discuss the practical challenges encountered and the solutions adopted Previous AWIC events were held in Spain 2003 Mexico 2004 Poland 2005 Israel 2006 France 2007 and Czech Rep 2009 The present 7th Atlantic Web Intelligence Conference AWIC 2011 was held during January 26 28 2011 at the University of Applied Sciences of Fribourg Switzerland AWIC2011 is organized by the Multimedia Information System Group MISG Institute of the Technologies of Information and Communication iTIC of the University of Applied Sciences of Fribourg Fundamentals of Physics, Volume 2 David Halliday, Robert Resnick, Jearl Walker, 2021-10-05 Renowned for its interactive focus on conceptual understanding its superlative problem solving instruction and emphasis on reasoning skills the Fundamentals of Physics Volume 2 12th Edition is an industry leading resource in physics teaching With expansive insightful and accessible treatments of a wide variety of subjects including photons matter waves diffraction and relativity the book is an invaluable reference for physics educators and students In the second volume of this two volume set the authors discuss subjects including Coulomb s Law Gauss Law and Maxwell s Equations Masterina Quantum Mechanics Barton Zwiebach, 2022-04-12 A complete overview of quantum mechanics covering essential concepts and results theoretical foundations and applications This undergraduate textbook offers a comprehensive overview of quantum mechanics beginning with essential concepts and results proceeding through the theoretical foundations that provide the field s conceptual framework and concluding with the tools and applications students will need for advanced studies and for research Drawn from lectures created for MIT undergraduates and for the popular MITx online course Mastering Quantum Mechanics the text presents the material in a modern and approachable manner while still including the traditional topics necessary for a well rounded understanding of the subject As the book progresses the treatment gradually increases in difficulty matching students increasingly sophisticated understanding of the material Part 1 covers states and probability amplitudes the Schr dinger equation energy eigenstates of particles in potentials the hydrogen atom and spin one half particles Part 2 covers mathematical tools the pictures of quantum mechanics and the axioms of quantum mechanics

entanglement and tensor products angular momentum and identical particles Part 3 introduces tools and techniques that help students master the theoretical concepts with a focus on approximation methods 236 exercises and 286 end of chapter problems 248 figures Echocardiography Technician - The Comprehensive Guide ANTILLIA TAURED, This essential manual serves as the definitive resource for aspiring and experienced echocardiography technicians alike offering a thorough exploration of the principles practices and protocols central to this critical medical field Navigate through the complexities of cardiac imaging with clear explanations and step by step guidance on techniques patient management and diagnostic criteria This guide stands apart by focusing exclusively on the textual elucidation of concepts without the use of images or illustrations ensuring that every reader gains a profound understanding from textual descriptions alone The lack of visual content is compensated by in depth descriptions and easy to understand narratives making it an indispensable tool for those looking to excel in echocardiography without visual aids The book emphasizes the practical application of knowledge in clinical settings incorporating case studies and real world scenarios to bridge the gap between theory and practice Whether you re a student needing a comprehensive textbook a technician seeking to enhance your skills or a healthcare professional aiming to update your knowledge of echocardiography techniques this guide provides invaluable insights into the art and science of cardiac imaging Its unique approach ensures that you are well prepared to meet the demands of modern healthcare with expertise and confidence A Compact & Comprehensive Book of IIT Foundation Phy. & Che. Class 8 S. K. Gupta & Anubhuti Gangal, Contains large number of Solved Examples and Practice Questions Answers Hints and Solutions have been provided to boost up the morale and increase the confidence level Self Assessment Sheets have been given at the end of each chapter tohelp the students to assess and evaluate their understanding of the concepts

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#### **Table of Contents Mastering Physics Answers Chapter2**

- 1. Understanding the eBook Mastering Physics Answers Chapter2
  - The Rise of Digital Reading Mastering Physics Answers Chapter2
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Mastering Physics Answers Chapter2
  - Exploring Different Genres
  - o Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Mastering Physics Answers Chapter2
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Mastering Physics Answers Chapter 2
  - Personalized Recommendations
  - $\circ\,$  Mastering Physics Answers Chapter 2 User Reviews and Ratings
  - Mastering Physics Answers Chapter2 and Bestseller Lists
- 5. Accessing Mastering Physics Answers Chapter 2 Free and Paid eBooks
  - Mastering Physics Answers Chapter 2 Public Domain eBooks
  - Mastering Physics Answers Chapter2 eBook Subscription Services
  - Mastering Physics Answers Chapter 2 Budget-Friendly Options

- 6. Navigating Mastering Physics Answers Chapter 2 eBook Formats
  - o ePub, PDF, MOBI, and More
  - Mastering Physics Answers Chapter Compatibility with Devices
  - Mastering Physics Answers Chapter 2 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Mastering Physics Answers Chapter2
  - Highlighting and Note-Taking Mastering Physics Answers Chapter 2
  - Interactive Elements Mastering Physics Answers Chapter2
- 8. Staying Engaged with Mastering Physics Answers Chapter 2
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Mastering Physics Answers Chapter2
- 9. Balancing eBooks and Physical Books Mastering Physics Answers Chapter2
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Mastering Physics Answers Chapter2
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Mastering Physics Answers Chapter 2
  - Setting Reading Goals Mastering Physics Answers Chapter2
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Mastering Physics Answers Chapter 2
  - Fact-Checking eBook Content of Mastering Physics Answers Chapter2
  - 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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