

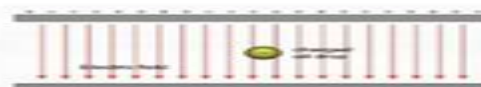
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HOMEWORK 4

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

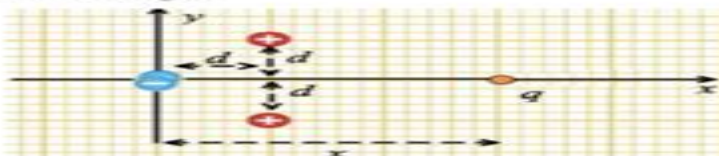
Hand-written solutions to the following questions are due on Wednesday 2/15/2023, on paper, at the beginning of your recitation session.

- 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 plates held in a vacuum chamber. The original apparatus and a simplified schematic are shown. The two plates are just above and below the small magnifying scope sticking out on the right of the apparatus. The entire 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 g/cm^3 . Oil is not water, however. . . .

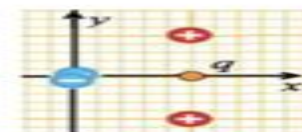
- 2) (50 pts total) In this problem we will explore the electric effects produced by a neutral molecule on charges nearby. We will consider a "toy" (very simple) model of a water molecule that has charge $-2e$ localized on the oxygen atom and charges of $+e$ localized on each hydrogen atom. In addition, 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, V , 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 V at the test charge's location. (Note: this is not the same situation as in the previous question, but it's very possible to leverage



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Mastering 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 Schrödinger 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

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Inspiring Active Learning Merrill Harmin, Melanie Toth, 2006 How can we structure class time efficiently How can we explain and lecture effectively How can we help students master content How can we make learning more real and lasting In this revised and greatly expanded 2nd edition of Inspiring Active Learning educators Merrill Harmin and Melanie Toth provide answers to our fundamental teaching questions and show us how to transform our classrooms into communities of active responsible learners The authors present an array of research based teacher tested strategies for managing our everyday responsibilities from beginning a

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The NIPS '17 Competition: Building Intelligent Systems Sergio Escalera,Markus Weimer,2018-09-27 This book summarizes the organized competitions held during the first NIPS competition track It provides both theory and applications of hot topics in machine learning such as adversarial learning conversational intelligence and deep reinforcement learning Rigorous competition evaluation was based on the quality of data problem interest and impact promoting the design of new models and a proper schedule and management procedure This book contains the chapters from organizers on competition design and from top ranked participants on their proposed solutions for the five accepted competitions The Conversational Intelligence Challenge Classifying Clinically Actionable Genetic Mutations Learning to Run Human Computer Question Answering Competition and Adversarial Attacks and Defenses

High School Physics Unlocked The Princeton Review,2016-10-18 Presents high school level physics instruction covering one and dimensional motion forces and mechanics energy and momentum gravity and satellite motion thermodynamics waves and sound electric interactions and light and optics Each chapter begins with clearly stated objectives and includes reviews of content examples key chain sidebars and practice questions and solutions

Physics of Magnetic Thin Films Hung T. Diep,2021-04-28 This book is for graduate students and researchers who wish to understand theoretical mechanisms lying behind macroscopic properties of magnetic thin films It provides a detailed description of basic theoretical methods and techniques of simulation to help readers in their research projects The first part of the book contains 6 chapters Chapters 1 to 5 focus on the fundamental theory of bulk magnetic materials Chapter 6 is devoted to the presentation of the Monte Carlo simulation methods Exercises and problems are provided at the end of each of these chapters for self training The second part contains 11 chapters devoted to the main topic of the book namely physics of magnetic thin films theory and simulation Written as a research paper each chapter focuses on a subject and also presents the state of the art literature on the subject and the motivation of the chapter A detailed description of the techniques and the presentation of the results are then shown with discussion

Mastering Optical Fiber Cables: Essential Insights for Cutting-Edge Transport Networks Ayman Elmassarawy,2024-03-13 This book delves into the fascinating world of fiber optic cables the unsung heroes of today s

information age It takes you on a comprehensive journey exploring the intricate characteristics of these cables and their transformative role in communication networks particularly within data centers and mobile technologies The book provides a comprehensive exploration of fiber optic cables with a focus on their design operation and impact on communication networks It delves into the fundamental principles of light propagation in optical fibers and covers a range of topics from the physics of light to the advantages of optical fibers in communication networks It also addresses the challenges and opportunities presented by different types of optical fibers and their applications in modern technologies Chapter 1 delves into the comprehensive exploration of optical fiber technology It covers the foundational principles of optical fiber structures and light guiding principles the evolution of the technology the superiority of fiber optic communication systems over traditional copper based systems specialty optical fibers and their unique applications and the transformative impact of optical fiber technologies on communication networks Chapter 2 delves into the physics of light propagation in optical fibers It explores the concept of light from both wave and ray perspectives gaining a deeper understanding of its behavior The chapter also covers the crucial role of the refractive index and reflection coefficient in guiding light through the fiber core as well as the intricacies of light propagation as it interacts with varying refractive indices within the fiber Chapter 3 focuses on the challenges encountered during light propagation in optical fibers It includes a comprehensive examination of the fiber optic cable structure exploring its various components The chapter also explores the intricacies of a fiber optic communication system with a particular focus on the crucial role of Total Internal Reflection in guiding light along the desired path and the concept of attenuation a primary challenge in fiber optic communication and how it affects signal strength Chapter 4 takes a closer look at the design protection and environment specific solutions employed in fiber optic cables It offers a scientific exploration of fiber optic cable design analyzing the different components and their contributions to overall functionality The chapter also provides a detailed focus on outdoor cables fiber optic connectors the intricate details of fiber optic connectors highlighting the importance of precision engineering durable materials tools and splicing equipment for fiber optic network installation and maintenance Chapter 5 introduces the essential elements of a fiber optic communication system the light sources and detectors The chapter provides a foundational overview of different fiber optic cable categories and dives into the concept of refractive index profiles and its crucial role in determining light propagation characteristics It also explores the underlying principles of light emission the role of energy bands and the fundamental differences between LEDs and lasers as well as an in depth analysis of edge emitting including their quantum efficiency and light generation mechanisms and scientific breakdown of Laser Diodes and Avalanche Photodiodes Chapter 6 delves into the realm of Dense Wave Division Multiplexing DWDM a revolutionary technology that has significantly increased the capacity of fiber optic communication networks The chapter offers a clear introduction to the concept of WDM and its relationship with the structure of optical fibers It also explores various passive and active optical components the science behind active optical

components fiber optic transmission systems and microwave over fiber optics links and the key technologies driving DWDM advancements

Mastering Physics for IIT-JEE Volume - II Rathi Rakesh, Physics for IIT JEE Introductory Physics with Algebra as a Second Language Stuart E. Loucks, 2006-08-04

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