

Name _____ Pd _____
Physics

PHET Electrostatics

Use the following links to answer the associated questions...

https://phet.colorado.edu/en/simulations/balloons-and-static-electricity/lets-try-balloons-and-static-electricity_en.html

https://phet.colorado.edu/en/simulations/balloons-and-static-electricity/lets-try-balloons-and-static-electricity_en.html

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Balloons and Static Electricity

1) Grab the balloon and rub it on the sweater. Describe what happens.

2) Move the balloon near the wall. Describe and draw what happens. Why does this happen?

3) Fill in the blanks...

As the balloon is brought near the _____ (positive, negative, neutral) wall, the _____ (positive, negative, neutral) balloon moves the _____ (protons, electrons) away. This process is called _____ (conduction, induction, polarization).

4) Hit the "Reset" button, "Remove Wall," and click on the "Two Balloons" icon. Rub each balloon with approximately the same number of electrons from the sweater. Describe what happens when the balloons are released near each other. Furthermore, explain why this happens.

Phet Physics Electrostatics Simulation Lab Answers

E Durkheim



Phet Physics Electrostatics Simulation Lab Answers:

Applied Physics II | AICTE Prescribed Textbook - English Hussain Jeevakhan, 2021-11-01 1 Applied Physics II With Lab Manual by Hussain Jeevakhan 789391505578 DIP126EN Applied Physics II is a basic science course in the first year of the Diploma program in Engineering Technology Contents of this book are stringently aligned as per model curriculum of AICTE and incorporated with the concepts of outcomes based education OBE Book covers seven topics Wave motion Optics Electrostatics Current electricity Electromagnetism semiconductor physics and Modern physics Each topic and its subtopics are written from the perspective of a student's learning and in accord with the NEP 2020 guidelines Every unit comprises a set of activities and exercise at the end to assist the student's learning Some salient features of the book | Unit Outcomes of each unit are mapped with Course Outcomes and Programs Outcomes | Book Provides relevant interesting facts QR Code for E resources and use of ICT and suggested micro projects activities in each unit | Content presented in book in chronological way | Figures tables and equations are given to improve clarity of the topics | Solved examples are given with systematic steps | MCQ s short and long answer questions and unsolved problems of understanding and above levels Bloom's Taxonomy are given for learning reinforcement of students and as per OBE *Eye Tracking for STEM Education Research: New Perspectives* Pascal Klein, Martin Rusek, Maike Schindler, 2024-04-04 A modern approach to improving education uses the components of experimental scientific research practices based on objective data dissemination of results and the use of modern technologies STEM education research is maturing and new tools and analysis techniques become available As one example eye tracking the recording of persons eye movements has been growing in popularity as it enables researchers to study learning materials effectiveness problem solving and even students approaches during experimentation Eye movements as captured using eye tracking can reveal information about a student's attention and cognition on a process level going well beyond classical product based assessment techniques such as questionnaires or tests **Announcer**, 2004

The Science Teacher, 2009 **Developments in Surface Contamination and Cleaning, Volume 7** Rajiv Kohli, Kashmiri L. Mittal, 2014-11-18 As device sizes in the semiconductor industries are shrinking they become more vulnerable to smaller contaminant particles and most conventional cleaning techniques employed in the industry are not as effective at smaller scales The book series *Developments in Surface Contamination and Cleaning* as a whole provides an excellent source of information on these alternative cleaning techniques as well as methods for characterization and validation of surface contamination Each volume has a particular topical focus covering the key techniques and recent developments in the area The chapters in this Volume address the sources of surface contaminants and various methods for their collection and characterization as well as methods for cleanliness validation Regulatory aspects of cleaning are also covered The collection of topics in this book is unique and complements other volumes in this series Edited by the leading experts in small scale particle surface contamination cleaning and cleaning control these books will be an invaluable

reference for researchers and engineers in R D manufacturing quality control and procurement specification situated in a multitude of industries such as aerospace automotive biomedical defense energy manufacturing microelectronics optics and xerography Provides a state of the art survey and best practice guidance for scientists and engineers engaged in surface cleaning or handling the consequences of surface contamination Addresses the continuing trends of shrinking device size and contamination vulnerability in a range of industries spearheaded by the semiconductor industry and others Includes new regulatory aspects

Introduction to Numerical Electrostatics Using MATLAB Lawrence N. Dworsky,2014-03-14

Readers are guided step by step through numerous specific problems and challenges covering all aspects of electrostatics with an emphasis on numerical procedures The author focuses on practical examples derives mathematical equations and addresses common issues with algorithms Introduction to Numerical Electrostatics contains problem sets an accompanying web site with simulations and a complete list of computer codes Computer source code listings on accompanying web site Problem sets included with book Readers using MATLAB or other simulation packages will gain insight as to the inner workings of these packages and how to account for their limitations Example computer code is provided in MATLAB Solutions Manual The first book of its kind uniquely devoted to the field of computational electrostatics *Asymmetric Electrostatic Forces and a New Electrostatic Generator* Katsuo Sakai,2010 It is well known that there are three kinds of electrostatic forces gradient force image force and the Coulomb force The gradient force acts on a non charged body that is placed in a convergence electric field Image force acts on a charged body placed nearby a conductive plate The Coulomb force acts on a charged body placed in an electric field As for the shape of these bodies only symmetric forms have been treated in the past The representative example for all three force types is globala sphere Forty years ago potential of a spherical body could be calculated In contrast today we can calculate the potential of any shape by computer simulation In this book simulation of the electrostatic force that acts on asymmetrically shaped conductors is carried out

Electrostatics. Methods for Simulation of Electrostatic Effects. Human Body Model (HBM) Electrostatic Discharge Test Waveforms British Standards Institute Staff,2007-08-31 Electrostatics Electrostatic chargings Electric discharges Electric charge Electronic equipment and components Electrical components Electrical testing Human body Waveforms *Simulation Lab Manual for Use with Electricity for the Trades* Frank D. Petruzella,2012

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