

PHYSICS

UNIT 13: ELECTROSTATICS

Emalah Foundation School & College

Conceptual Questions

13.1. An electrified rod attracts pieces of paper. After a while these pieces fly away! Why?

Suppose a glass rod is rubbed with silk, it becomes positively charged (an electrified rod). When this glass rod is brought close to the pieces of paper, by electrostatic induction, a negative charge appears on pieces of paper due to which these pieces of paper attracted towards the rod. But when these pieces of paper touch the charged rod, some of electrons from the pieces of paper are transferred to the glass rod and then pieces of paper also become positively charged, due to which there will be the force of repulsion between rod and pieces of paper, hence the pieces of paper fly away from the rod.

13.2.- How much negative charge has been removed from a positively charged electroscope if it has a charge of $7.5 \times 10^{-13} \text{ C}$?

$7.5 \times 10^{-13} \text{ C}$ of negative charge has been removed from an electroscope to produce a positive charge of $7.5 \times 10^{-13} \text{ C}$ on the electroscope.

13.3. In what direction will a positively charged particle move in an electric field?

In an electric field positively charged particle will move from a point of higher potential to a point of lower potential i.e., the positively charged particle will move in the direction of electric field.

13.4. Does each capacitor carry equal charge in series combination? Explain.

Yes, each capacitor carries equal charge in series combination. When capacitors are connected in series, the same amount of charge flows through each capacitor. Therefore, each capacitor carries equal charge.

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In a series combination of capacitors, the total capacitance is less than the individual capacitance. This is because the reciprocal of the total capacitance is equal to the sum of the reciprocals of the individual capacitances. Therefore, the total capacitance is less than the individual capacitance.

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Conceptual Questions From Electrostatic

Arnold B. Arons



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Physics for Global Scientists and Engineers, Volume 2 Raymond A. Serway, John W. Jewett, Wayne (California State Polytechnic University Rowlands, Pomona), Kate Wilson, Wayne Rowlands, Anna (University of Canberra Wilson, Australian National University), 2016-10-01 This second edition of Serway's Physics For Global Scientists and Engineers is a practical and engaging introduction for students of calculus based physics. Students love the Australian Asia Pacific and international case studies and worked examples, concise language and high quality artwork in two easy to carry volumes. NEW key topics in physics such as the Higgs boson engage students and keep them interested. NEW Maths icons highlight mathematical concepts in the text and direct students to the relevant information in the Maths Appendix. NEW Index of Symbols provides students with a quick reference for the symbols used throughout the book. This volume two includes Electricity and magnetism, Light and optics and Quantum physics. Volume one covers Mechanics, Mechanical properties of solids and fluids, Oscillations and mechanical waves and Thermodynamics. Course in Physics 4: Electrostatics and Current Electricity,

Conceptual Electromagnetics Branislav M. Notaroš, 2017-07-06 This is a textbook on electromagnetic fields and waves completely based on conceptual understanding of electromagnetics. The text provides operational knowledge and firm grasp of electromagnetic fundamentals aimed toward practical engineering applications by combining fundamental theory and a unique and comprehensive collection of as many as 888 conceptual questions and problems in electromagnetics. Conceptual questions are designed to strongly enforce and enhance both the theoretical concepts and understanding and problem solving techniques and skills in electromagnetics. **Modern Take On Physics, A - Volume 2: Classical And Quantum**

Field Theory Giovanni Organtini, Graziano Surace, 2025-03-17 These two volumes cover the classical topics typically taught in undergraduate physics courses and beyond. However, we teach classical physics using a very different language from traditional books influenced by the language of modern physics in a move to encourage a positive approach towards the latter subject. Based around the unifying concept of energy, we take a distinct approach to the organisation of material, presenting physics in a cohesive manner without separating topics such as mechanics, kinematics, thermodynamics, electricity and magnetism. Instead, physics is revealed gradually, emphasising a holistic approach to science. Despite this peculiarity, we have maintained the conventional separation between Physics I and II to assist teachers in smoothly integrating these books into their courses. These innovative volumes present valuable new perspectives. Although their approach is bold, they will certainly prompt interesting reflections on traditional teachings. A significant portion of this second volume is committed to modern physics, including an introduction to the standard model of fundamental interactions. The old quantum mechanics is largely excluded in favour of quantum field theory, which we present in a manner accessible to undergraduate students.

Principles of Physics Raymond A. Serway, 1997-08 Concepts in Biochemistry William K. Stephenson, 1978 A comprehensive up to date treatment of the biochemistry essential for an understanding of molecular and cellular biological

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Marshall, Gabriel G. Skitek, 1990 Extending Science Concepts in the Laboratory A. S. Atal, Manfred C. Schmid, 1970

Physical Science Bill W. Tillery, 1999 An introductory text for a one or two semester text on the fundamental behavior of matter and energy for nonscience majors covering physics chemistry astronomy and earth sciences Material incorporates minimal use of technical terminology discussion of applications and environmental concerns throughout and historical background with emphasis on problem solving mathematics Learning aids include chapter summaries key terms and multiple choice and critical thinking questions Exercises are given in two sets one with explained answers Includes an art notebook of explanatory color diagrams Annotation copyright by Book News Inc Portland OR *Fundamentals of Electrical Engineering*

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Wisconsin 10 15 July 2006 *The Physics of Everyday Phenomena* W. Thomas Griffith, 1992 **Study Guide, Student Solutions Manual** John R. Gordon, 1998 Cisco Networking Academy Program Vito Amato, Cisco Systems, Inc, 1999 Cisco Networking Academy Program Engineering Journal and Workbook Volume I is a companion product to the Cisco Systems Networking Academy Program First Year Companion Guide Revised Printing and the online curriculum This book tracks to Version 2 of the online curriculum and includes a chapter on the Engineering Journal and how to establish a habit of documenting one's work It provides study aids for each chapter including a detailed chapter introduction and objectives complete with a writing opportunity for each objective High level thought process questions called Focus Questions provide students the opportunity to express what they have learned in writing Each chapter also includes review questions to prepare students for the CCNA exam **A Guide to Introductory Physics Teaching** Arnold B. Arons, 1990-01-24 A guide to

teaching introductory physics from high school to calculus based college courses this instructional tool presents systematic observations based upon research into how physics students come to learn and understand physical concepts models and lines of reasoning Includes many examples of test questions and homework problems **Inquiry Into Physics** Vernon J. Ostdiek, 1999-10 Introduction to Physics and Chemistry Bill W. Tillery, 1992 Physics John D. Cutnell, Kenneth W.

Johnson,1994-08-02 This text is designed for a one year course in college physics that uses algebra and trigonometry The book has three goals to help students develop conceptual understanding of physical principles the ability to reason and problem solving skill to help students see that physics is a wonderfully integrated body of knowledge to show students that physics principles come into play over and over again in their lives **Development of Concepts of Physics** Arnold B. Arons,1965

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