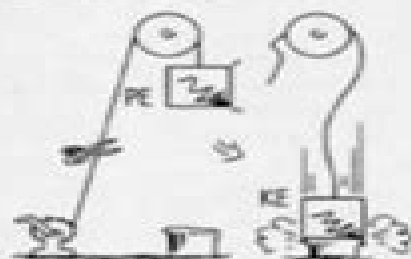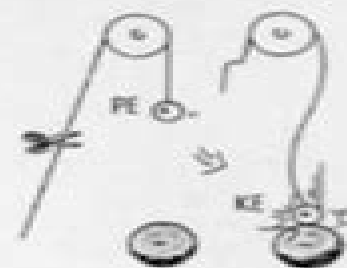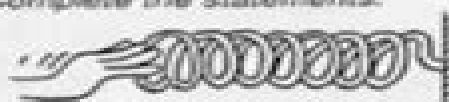**Chapter 21: Electrostatics**
Electric Potential

Just as PE transforms to KE for a mass lifted against the gravitation field (left), the electric PE of an electric charge transforms to other forms of energy when it changes location in an electric field (right). In both cases, how does the KE acquired compare to the decrease in PE?

_____

Complete the statements.

A force compresses the spring. The work done in compression is the product of the average force and the distance moved. W = Fd. This work increases the PE of the spring.

Similarly, a force pushes the charge (call it a test charge) closer to the charged sphere. The work done in moving the test charge is the product of the average _____ and the _____ moved. W = _____. This work _____ the PE of the test charge.

If the test charge is released, it will be repelled and fly past the starting point. Its gain in KE at this point is _____ to its decrease in PE.

At any point, a greater amount of test charge means a greater amount of PE. But not a greater amount of PE *per amount of charge*. The quantities PE (measured in joules) and PE/charge (measured in volts) are different concepts.

By definition: **Electric Potential ≡ PE/charge.** 1 volt = 1 joule/1 coulomb. So 1 C of charge with a PE of 1 J has an electric potential of 1 V. And 2 C of charge with a PE of 2 J has an electric potential of _____ V.

If a conductor connected to the terminal of a battery has an electric potential of 12 V, then each coulomb of charge on the conductor has a PE of _____ J.

You do very little work in rubbing a balloon on your hair to charge it. The PE of several thousand billion electrons (about one-millionth coulomb $[10^{-6}C]$) transferred may be a thousanth of a joule $[10^{-3}J]$. Impressively, however, the electric potential of the balloon is about _____ V!

Why is contact with a balloon charged to thousands of volts not as dangerous as contact with household 110 V? _____

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Chapter-wise Topical Objective Study Package for CBSE 2022 Class 12 Term I Physics Disha Experts,2021-09-01 Disha s Chapter wise Topical Study Package for CBSE 2022 Class 12 Term I Physics is designed on the exact lines of the latest syllabus and paper pattern prescribed by the CBSE board Circular dated July 22 2021 for the Term I Exam to be held in November The Book consists of a total of 7 Chapters of Term I Each chapter is divided into 3 4 Topics Each Topic covers exhaustive theory with Illustrations followed by an Objective Exercise consisting of MCQs AR Case based VSA SA Questions Further the Chapter covers Concept Maps Important Formulae NCERT Exemplar Past Year Questions The Past Solved Objective Questions covered in the book are from 2021 CBSE Sample Paper 2020 2019 2018 2017 In the end of the Chapter an Objective Practice Exercise and a Chapter Test is provided for final practice and assessment There are a total of 1200 Objective Questions with Solutions The book is a One Stop Solution for Learning Practice Revision **Fundamentals of Physics, Chapters 38-44** David Halliday,Robert Resnick,Jearl Walker,2010-03-08 *Objective Physics for NEET Vol 2 2022* DC Pandey,2021-05-12 1 Best selling study guide and well structured study resource for NEET AIIMS JIPMER 2 NEET Objective Physics Vol 2 for class 12 3 The book follows the NCERT pattern for MBBS BDS entrance preparation along with their school studies 4 Diagrams tables figures etc support theory 5 Practice exercises after every chapter 6 Coverage of last 1 Years Questions of NEET CBSEE AIPMT and Other Medical Entrances The NEET Objective Physics Volume 2 is a complete comprehensive book designed for the medical students preparing for NEET As the title suggests the volume 2 covers the complete NEET syllabus along with NCERT Textbook of class 12th into 14 Chapters for the simultaneous preparation of both school exam Every chapter is well supported by theories diagrams tables figures Important points and Notes are given in the topics to enrich students In order to help Check Point Exercises are given in between the text of all chapters to make students linked with the topic Solved Examples are given with the different concepts of chapters to make students learn the problem solving skills Exercises provided in the chapters are divided into 3 parts Part A Taking it Togetherdeals with objective questions arranged topically according to level of difficulty for the systematic practice Part B Medical Entrance Special Format Questions covers all special types of questions generally asked in NEET other Medical Entrances Part C Medical Entrances Gallery asked questions in Last 1 years 22 211 in NEET and other medical entrances Answers to all the questions are well defined provided in different exercises TOC Electric Charges and Fields Electrostatic Potential and Capacitance Current Electricity Magnetic Effect of Current and Moving Charges Magnetism and Matter Electromagnetic Induction Altering Current Electromagnetic Waves Ray Optics Waves Optics Dual Nature of Radiation and Matter Atoms Nuclei Solids and Semiconductor Devices **Physics, Volume 2** David Halliday,Robert Resnick,Kenneth S. Krane,2010-04-20 Written for the full year or three term Calculus based University Physics course for science and engineering majors the publication of the first edition of Physics in 1960 launched the modern era of Physics textbooks It was

a new paradigm at the time and continues to be the dominant model for all texts Physics is the most realistic option for schools looking to teach a more demanding course The entirety of Volume 2 of the 5th edition has been edited to clarify conceptual development in light of recent findings of physics education research End of chapter problem sets are thoroughly over hauled new problems are added outdated references are deleted and new short answer conceptual questions are added

Nuclear Science Abstracts ,1972 **The Electrical Review** ,1917 **Proceedings of COSPAR Symposium on Solar Particle Event of November 1969** James C. Ulwick,1972 A COSPAR sponsored Symposium on Solar Particle Events was held at Boston College at Chestnut Hill Massachusetts on 16 17 and 18 June 1971 The purpose of the symposium was to present measurements and observations made during the November 1969 Solar Proton Event This particular event was unique in that extensive solar magnetospheric and aeronomic measurements by rocket satellite and ground based techniques were made to provide a comprehensive picture of the phenomenology and morphology of this event In addition present knowledge of solar proton events and their effects on the polar ionosphere was reviewed and discussed This included theoretical studies as well as results from investigations of other solar proton events The symposium comprised invited as well as contributed papers A total of 49 papers presented at the symposium are included in these proceedings Applied Mechanics Reviews ,1975 Conductor Insulator Quantum Phase Transitions Vladimir Dobrosavljevic,Nandini Trivedi,James M. Valles (Jr),2012-06 When many particles come together how do they organize themselves And what destroys this organization Combining experiments and theory this book describes intriguing quantum phases metals superconductors and insulators and transitions between them It captures the excitement and the controversies on topics at the forefront of research **Chemistry and Industry** ,1973 *Western Electrician* ,1903 **The Pendulum** Gregory L. Baker,James A. Blackburn,2008-11-28 The pendulum a case study in physics is a unique book in several ways Firstly it is a comprehensive quantitative study of one physical system the pendulum from the viewpoint of elementary and more advanced classical physics modern chaotic dynamics and quantum mechanics In addition coupled pendulums and pendulum analogs of superconducting devices are also discussed Secondly this book treats the physics of the pendulum within a historical and cultural context showing for example that the pendulum has been intimately connected with studies of the earth s density the earth s motion and timekeeping While primarily a physics book the work provides significant added interest through the use of relevant cultural and historical vignettes This approach offers an alternative to the usual modern physics courses The text is amply illustrated and augmented by exercises at the end of each chapter **Power** ,1895 **Radio News** ,1939 Some issues 1943 July 1948 include separately paged and numbered section called Radio electronic engineering edition called Radionics edition in 1943 *Physics Briefs* ,1992 Radio & TV News ,1939-07 Some issues Aug 1943 Apr 1954 are called Radio electronic engineering ed called in 1943 Radionics ed which include a separately paged section Radio electronic engineering varies v 1 no 2 v 22 no 7 issued separately Aug 1954 May 1955 *Books and Pamphlets, Including Serials and*

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