

Physics

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(Chapter – 2) (Electrostatic Potential and Capacitance)

(Class – XII)

Question 2.19:

If one of the two electrons of a H_2 molecule is removed, we get a hydrogen molecular ion H_2^+ . In the ground state of an H_2^+ , the two protons are separated by roughly 1.5 \AA , and the electron is roughly 1 \AA from each proton. Determine the potential energy of the system. Specify your choice of the zero of potential energy.

Answer 2.19:

The system of two protons and one electron is represented in the given figure.

Charge on proton 1, $q_1 = 1.6 \times 10^{-19} \text{ C}$

Charge on proton 2, $q_2 = 1.6 \times 10^{-19} \text{ C}$

Charge on electron, $q_3 = -1.6 \times 10^{-19} \text{ C}$

Distance between protons 1 and 2, $d_1 = 1.5 \times 10^{-10} \text{ m}$

Distance between proton 1 and electron, $d_2 = 1 \times 10^{-10} \text{ m}$

Distance between proton 2 and electron, $d_3 = 1 \times 10^{-10} \text{ m}$

The potential energy at infinity is zero.

Potential energy of the system,

$$V = \frac{q_1 q_2}{4\pi \epsilon_0 d_1} + \frac{q_1 q_3}{4\pi \epsilon_0 d_2} + \frac{q_2 q_3}{4\pi \epsilon_0 d_3}$$

Substituting $\frac{1}{4\pi \epsilon_0} = 9 \times 10^9 \text{ Nm}^2 \text{ C}^{-2}$, we obtain

$$\begin{aligned} V &= \frac{9 \times 10^9 \times 10^{-19} \times 10^{-19} \times 10^{-19}}{10^{-30}} \left[-(16)^2 + \frac{(1.6)^2}{1.5} + -(1.6)^2 \right] \\ &= -30.7 \times 10^{-19} \text{ J} \\ &= -19.2 \text{ eV} \end{aligned}$$

Therefore, the potential energy of the system is -19.2 eV .

Question 2.20:

Two charged conducting spheres of radii a and b are connected to each other by a wire. What is the ratio of electric fields at the surfaces of the two spheres? Use the result obtained to explain why charge density on the sharp and pointed ends of a conductor is higher than on its flatter portions.

Answer 2.20:

Let a be the radius of a sphere A, Q_A be the charge on the sphere, and C_A be the capacitance of the sphere. Let b be the radius of a sphere B, Q_B be the charge on the sphere, and C_B be the capacitance of the sphere. Since the two spheres are connected with a wire, their potential (V) will become equal.

Let E_A be the electric field of sphere A and E_B be the electric field of sphere B. Therefore, their ratio,

$$\begin{aligned} \frac{E_A}{E_B} &= \frac{Q_A}{4\pi \epsilon_0 \times a^2} \times \frac{b^2 \times 4\pi \epsilon_0}{Q_B} \\ \frac{E_A}{E_B} &= \frac{Q_A}{Q_B} \times \frac{b^2}{a^2} \quad \dots (1) \end{aligned}$$

$$\text{However, } \frac{Q_A}{Q_B} = \frac{C_A V}{C_B V}$$

$$\text{And, } \frac{C_A}{C_B} = \frac{a}{b}$$

$$\therefore \frac{Q_A}{Q_B} = \frac{a}{b} \quad \dots (2)$$

Putting the value of (2) in (1), we obtain

$$\therefore \frac{E_A}{E_B} = \frac{a}{b} \times \frac{b^2}{a^2} = \frac{b}{a}$$

Therefore, the ratio of electric fields at the surface is b/a .

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Bhathal, 2010-08-04 This book is the product of more than half a century of leadership and innovation in physics education When the first edition of University Physics by Francis W Sears and Mark W Zemansky was published in 1949 it was revolutionary among calculus based physics textbooks in its emphasis on the fundamental principles of physics and how to apply them The success of University Physics with generations of several million students and educators around the world is a testament to the merits of this approach and to the many innovations it has introduced subsequently In preparing this First Australian SI edition our aim was to create a text that is the future of Physics Education in Australia We have further enhanced and developed University Physics to assimilate the best ideas from education research with enhanced problem solving instruction pioneering visual and conceptual pedagogy the first systematically enhanced problems and the most pedagogically proven and widely used online homework and tutorial system in the world Mastering Physics

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Franklin, 2020-03-05 Anchored in simple and familiar physics problems the author provides a focused introduction to mathematical methods in a narrative driven and structured manner Ordinary and partial differential equation solving linear algebra vector calculus complex variables and numerical methods are all introduced and bear relevance to a wide range of physical problems Expanded and novel applications of these methods highlight their utility in less familiar areas and advertise those areas that will become more important as students continue This highlights both the utility of each method in progressing with problems of increasing complexity while also allowing students to see how a simplified problem becomes re-complexified Advanced topics include nonlinear partial differential equations and relativistic and quantum mechanical variants of problems like the harmonic oscillator Physics mathematics and engineering students will find 300 problems treated in a sophisticated manner The insights emerging from Franklin's treatment make it a valuable teaching resource

Engineering Education John Heywood, 2006-01-24 A synthesis of nearly 2 000 articles to help make engineers better educators While a significant body of knowledge has evolved in the field of engineering education over the years much of the published information has been restricted to scholarly journals and has not found a broad audience This publication rectifies that situation by reviewing the findings of nearly 2 000 scholarly articles to help engineers become better educators devise more effective curricula and be more effective leaders and advocates in curriculum and research development The author's first objective is to provide an illustrative review of research and development in engineering education since 1960 His second objective is with the examples given to encourage the practice of classroom assessment and research and his third objective is to promote the idea of curriculum leadership The publication is divided into four main parts Part I demonstrates how the underpinnings of education history philosophy psychology sociology determine the aims and objectives of the curriculum and the curriculum's internal structure which integrates assessment content teaching and learning Part II focuses

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University Physics T. William Houk, James Poth, John W. Snider, 2013-10-22 University Physics Arfken Griffing Kelly Priest covers the concepts upon which the quantitative nature of physics as a science depends the types of quantities with which physics deals are defined as well as their nature and the concepts of units and dimensions The book describes the concepts of scalars and vectors the rules for performing mathematical operations on vector quantities the concepts of force torque center of gravity and types of equilibrium The text also describes the concepts and quantities required to describe motion the linear kinematical relationships to describe motion as well as the interrelationship between forces which effect motion and the motion itself The concepts of mechanical work kinetic energy and power conservative and nonconservative forces and the conservation of

linear momentum are also considered The book further tackles the concept of the center of mass the rotational analogs of translational dynamics and the mechanics of rotating systems The text then demonstrates the motion of a rigid body oscillatory motion the mechanical properties of matter and hydrodynamics Thermodynamics electricity electromagnetism and geometric and physical optics are also encompassed Quantum and nuclear physics are also looked into Students taking physics courses will find the book useful

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