

# 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  $1.5 \text{ \AA}$ , and the electron is roughly  $1 \text{ \AA}$  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  $-19.2 \text{ eV}$ .

### 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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# College Physics Chapter 2 Solutions

**Hugh D Young, Roger A  
Freedman, Ragbir Bhathal**



## College Physics Chapter 2 Solutions:

### **Solutions to Environmental Problems Involving Nanotechnology and Enzyme Technology** Alka

Dwevedi,2018-12-06 Nanotechnology and Enzyme Technology Combined to Address Environmental Problems discusses how nanotechnology and enzyme technology work independently and together to help researchers and environmental professionals learn about this revolutionary and cross disciplinary field Nanotechnology has provided a range of nanomaterials some of which are helpful in the protection of the environment and climate They can be used to improve durability against mechanical stress help in cleaning enhance energy efficiency as insulation save energy consumption during transportation due to catalytic properties and more This book highlights this technology as it continues to provide solutions for various environmental problems Covers air and water pollution remediation in the developing field of combining nanotechnology with enzyme technology Reviews the sustainability potentials of combining nanotechnology and enzyme technology including energy production Applies current research and utilization to a variety of environmental issues including pollution and energy production Student's Solutions Manual to Accompany University Physics ,1984

**Study Guide and Student Solutions Manual for Wilson College Physics** David Cordes, Jerry D. Wilson, John Kinard, 1990 This reader friendly book presents the fundamental principles of physics in a clear and concise manner Emphasizing conceptual understanding as the basis for mastering a variety of problem solving tools it provides a wide range of relevant applications and illustrative examples This book discusses mechanics thermodynamics and oscillations and wave motion For anyone wishing to learn more about the fundamentals of physics and how physical principles apply to a variety of real world situations devices and topics University Physics: Australian edition Hugh D Young, Roger A Freedman, Ragbir

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

Multidimensional NMR Methods for the Solution State Gareth A. Morris, James W. Emsley, 2012-12-19 The content of this volume has been added to eMagRes formerly Encyclopedia of Magnetic Resonance the ultimate online resource for NMR and MRI The literature of multidimensional NMR began with the publication of three papers in 1975 then nine in 1976 and fifteen

in 1977 and now contains many tens of thousands of papers Any attempt to survey the field must therefore necessarily be very selective not to say partial In assembling this handbook the Editors have sought to provide both the new researcher and the established scientist with a solid foundation for the understanding of multidimensional NMR a representative if inevitably limited survey of its applications an authoritative account of classic techniques such as COSY NOESY and TOSCY and an account of the latest progress in the development of multidimensional techniques This handbook is structured in four parts The first opens with an historical introduction to and a brief account of the practicalities and applications of multidimensional NMR methods followed by a definitive survey of their conceptual basis and a series of articles setting out the generic principles of methods for acquiring and processing multidimensional NMR data In the second part the main families of multidimensional techniques arranged in approximate order of increasing complexity are described in detail from simple J resolved spectroscopy through to the powerful heteronuclear 3D and 4D methods that now dominate the study of structural biology in solution The third part offers an illustrative selection from the very wide range of applications of multidimensional NMR methods including some of the most recent developments in protein NMR Finally the fourth part introduces the idea of multidimensional spectra containing non frequency dimensions in which properties such as diffusion and relaxation are correlated About EMR Handbooks eMagRes Handbooks The Encyclopedia of Magnetic Resonance up to 2012 and eMagRes from 2013 onward publish a wide range of online articles on all aspects of magnetic resonance in physics chemistry biology and medicine The existence of this large number of articles written by experts in various fields is enabling the publication of a series of EMR Handbooks eMagRes Handbooks on specific areas of NMR and MRI The chapters of each of these handbooks will comprise a carefully chosen selection of articles from eMagRes In consultation with the eMagRes Editorial Board the EMR Handbooks eMagRes Handbooks are coherently planned in advance by specially selected Editors and new articles are written together with updates of some already existing articles to give appropriate complete coverage The handbooks are intended to be of value and interest to research students postdoctoral fellows and other researchers learning about the scientific area in question and undertaking relevant experiments whether in academia or industry Have the content of this Handbook and the complete content of eMagRes at your fingertips Visit [www.wileyonlinelibrary.com/ref/eMagRes](http://www.wileyonlinelibrary.com/ref/eMagRes) View other eMagRes publications here

### **Equations of Membrane Biophysics N**

Lakshminarayanaiah, 2013-09-03 Equations of Membrane Biophysics provides an introduction to the relevant principles of thermodynamics kinetics electricity surface chemistry electrochemistry and other mathematical theorems so that the quantitative aspects of membrane phenomena in model and biological systems could be described The book begins by introducing several phenomena that arise across membranes both artificial and biological when different driving forces act across them This is followed by separate chapters on thermodynamic principles related to properties of dilute aqueous electrolyte solutions along with a review of the principles of electrostatics electrochemical principles Fick's laws of diffusion

and the rate theory of diffusion the quantitative aspects of the electrochemistry of solutions and membranes and the quantitative relations between charges and electrostatic potentials related to surfaces and interfaces and membrane theories pertaining to electrical potentials arising across a variety of membranes Subsequent chapters deal with steady state thermodynamic approaches to several transport phenomena in membranes tissue impedance cable theory and Hodgkin Huxley equations and fluctuation analysis of the electrical properties of the membrane Climate Smart & Energy Wise

Mark S. McCaffrey, 2014-09-09 Today's answers to our most urgent climate issues The twenty first century ushered in a set of unmistakably urgent global challenges that are too important to be an afterthought in today's classrooms Climate Smart Energy Wise offers a virtual blueprint to climate and energy education packed with resources and strategies including A high level overview of where climate and energy topics fit or don't fit into your current curriculum with connections to the NGSS Proven methods to teach climate change and related topics in a grade appropriate way Sample learning activities and high quality online resources

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**Oswaal CDS (Combined Defence Services) 14 Solved Papers Year-wise 2018-2024 (II) | English | For 2025 Exam** Oswaal Editorial Board, 2024-09-26 Union Public Service Commission UPSC every year conducts a CDS exam twice a year for candidates who wish to make their career in the defence forces Army Navy and Air Force The Combined Defence Services Examination is conducted for admission to the Indian Military Academy IMA Indian Naval Academy INA Air Force Academy AFA and Officers Training Academy OTA The CDS selection process comprises two stages written exams and SSB interviews The final selection of candidates is done based on the performance in both stages After completing training at IMA INA AFA and OTA candidates are selected for the post of Lieutenant In 2024 Approx 4.5 Lacs students applied for the CDS examination the opportunity you get from the Indian Armed Forces is just limitless which helps in enhancing your personality traits For a youngster who is aspiring to get a job full of challenges and excitement then there is no better job than the defence This book aims to make aspirants exam ready boost their confidence and help them achieve better results in CDS By making learning Simple we are also making better careers and a better life for every student Every day we are moving ahead

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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

on the curriculum itself considering such key issues as content organization trends and change A chapter on interdisciplinary and integrated study and a chapter on project and problem based models of curriculum are included Part III examines problem solving creativity and design Part IV delves into teaching assessment and evaluation beginning with a chapter on the lecture cooperative learning and teamwork The book ends with a brief insightful forecast of the future of engineering education Because this is a practical tool and reference for engineers each chapter is self contained and may be read independently of the others Unlike other works in engineering education which are generally intended for educational researchers this publication is written not only for researchers in the field of engineering education but also for all engineers who teach All readers acquire a host of practical skills and knowledge in the fields of learning philosophy sociology and history as they specifically apply to the process of engineering curriculum improvement and evaluation **Aero Digest**

,1948 **Self-Assembled Structures** Jingcheng Hao,2016-04-19 Self assembly is a process in which a disordered system forms an organized structure without external direction Examples include the formation of molecular crystals lipid bilayers and polymer brushes This book reviews the fabrication and use of various self assembled materials In particular the author pays special attention to self assembled structures when in solution and in contact with surfaces as such interactions can have a pronounced impact on their properties and applications The text covers bulk solution and surfaces assembled structures colloid particles polymer capsules carbon nanotubes as well as layer by layer assembly techniques **Oswaal**

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### **Homogenisation: Averaging Processes in Periodic Media**

N.S. Bakhvalov, G. Panasenko, 2012-12-06 Et moi si j'avait su comment en revenir One service mathematics has rendered the je n'y semis point all human race It has put common sense back Jules Verne where it belongs on the topmost shelf next to the dusty canister labelled discarded non The series is divergent therefore we may be sense able to do something with it Eric T Bell O Heavieside Mathematics is a tool for thought A highly necessary tool in a world where both feedback and non linearities abound Similarly all kinds of parts of mathematics serve as tools for other parts and for other sciences Applying a simple rewriting rule to the quote on the right above one finds such statements as One service topology has rendered mathematical physics One service logic has rendered computer science One service category theory has rendered mathematics All arguably true And all statements obtainable this way form part of the *raison d'être* of this series

**Library and Information Services for Bioinformatics Education and Research** Ram, Shri, 2017-01-25 The delivery and availability of information resources is a vital concern to professionals across multiple fields This is particularly vital to data intensive professions where easy accessibility to high quality information is a crucial component of their research Library and Information Services for Bioinformatics Education and Research is an authoritative reference source for the latest scholarly material on the role of libraries for the effective delivery of information resources to optimize the study of biological data Highlighting innovative perspectives across a range of topics such as user assessment collection development and information accessibility this publication is ideally designed for professionals managers computer scientists graduate students and practitioners actively involved in the field of bioinformatics

**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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**Beat Boredom** Martha Rush,2017 Are your students bored in class According to research a majority of American high school students report being bored in class and fewer than 5% claimed that they were rarely bored during a typical day in school Former journalist and veteran teacher Martha Rush decided this would not do for her Minnesota students Moving beyond asking open ended questions and making connections to their own lives Martha began to engage her government journalism and economics

classes in meaty discussions competitions simulations and authentic work like running a newspaper or starting a business Building on her more than 800 interviews with high school graduates she offers up strategies in all subject areas for active engagement moving way beyond traditional passive memorization of information She describes how to create innovative experiences in your classroom and shares her own lessons and her students work Beat Boredom will help you join the ranks of teachers who have challenged the status quo and found ways to motivate even the most reluctant learners

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