

## Coulombic Attraction

What variables will affect the force of attraction between charged particles?

### Why?

**Coulombic attraction** is the attraction between oppositely charged particles. For example, the protons in the nucleus of an atom have attraction for the electrons surrounding the nucleus. This is because the protons are positive and the electrons are negative. The attractive force can be weak or strong. In this activity, you will explore the strength of attraction between protons and electrons in various atomic structures.

### Model 1 – Distance and Attractive Force

		Force of Attraction (Newtons)
A	 0.10 nm	$2.30 \times 10^{-8}$
B	 0.20 nm	$0.58 \times 10^{-8}$
C	 0.30 nm	$0.26 \times 10^{-8}$

1. What subatomic particles do these symbols represent in Model 1?

 protons       electrons

2. Would you expect to observe attraction or repulsion between the subatomic particles in Model 1?

Attraction.



3. Consider the data in Model 1.

- a. What are the independent and dependent variables in the data?

Distance      Force of Attraction

- b. Write a complete sentence that describes the observed relationship between the independent and dependent variables in Model 1.

As distance increases, force of attraction decreases. (inverse)

4. If the distance between a proton and electron is 0.50 nm, would you expect the force of attraction to be greater than or less than  $0.26 \times 10^{-8}$  N?

less than  $0.26 \times 10^{-8}$  N

5. If two protons are 0.10 nm away from one electron, would you expect the force of attraction to be greater than or less than  $2.30 \times 10^{-8}$  N?

Greater than  $2.30 \times 10^{-8}$  N



# Coulombic Attraction Answers

**Kang Xu**



## **Coulombic Attraction Answers:**

Inorganic Chemistry Gary Wulfsberg, 2000-03-16 Both elementary inorganic reaction chemistry and more advanced inorganic theories are presented in this one textbook while showing the relationships between the two     **Foundations of Inorganic Chemistry** Gary Wulfsberg, 2017-11-02 Foundations of Inorganic Chemistry by Gary Wulfsberg is our newest entry into the field of Inorganic Chemistry textbooks designed uniquely for a one semester stand alone course or to be used in a full year inorganic sequence Foundations of Inorganic Chemistry by Gary Wulfsberg is our newest entry into the field of Inorganic Chemistry textbooks designed uniquely for a one semester stand alone course or to be used in a full year inorganic sequence By covering virtually every topic in the test from the 2016 ACS Exams Institute this book will prepare your students for success The new book combines careful pedagogy clear writing beautifully rendered two color art and solved examples with a broad array of original chapter ending exercises It assumes a background in General Chemistry but reviews key concepts and also assumes enrollment in a Foundations of Organic Chemistry course Symmetry and molecular orbital theory are introduced after the student has developed an understanding of fundamental trends in chemical properties and reactions across the periodic table which allows MO theory to be more broadly applied in subsequent chapters Use of this text is expected to increase student enrollment and build students appreciation of the central role of inorganic chemistry in any allied field Key Features Over 900 end of chapter exercises half answered in the back of the book Over 180 worked examples Optional experiments demos Clearly cited connections to other areas in chemistry and chemical sciences Chapter opening biographical vignettes of noted scientists in Inorganic Chemistry Optional General Chemistry review sections Originally rendered two color illustrations throughout     E3 Chemistry AP Exam Practice - 2018: With Answers, Explanations and Scoring Guidelines Effiong Eyo, 2018-01-15 Preparing for Chemistry AP Exam has never been easier more enticing more exciting more engaging more understandable and less overwhelming Our book is written to help students do more know more and build confidence for a higher mark on their AP exam With a total of four practice tests with answers and explanations this book can be used as a primary question practice resource or as a supplementary resource to other AP chemistry book Book Summary Organized engaging doable quick practice quality question sets Clear brief simple and easy to understand correct answer explanations With scoring guidelines to all free response questions Start your Chemistry AP Exam Practice today Good Luck AP is a trademark registered by the College Board which is not affiliated with and does not endorse this book     *Chemistry* William B. Tucker, 2024-07-19 Providing a holistic overview of general chemistry and its foundational principles this textbook is an essential accompaniment to students entering the field It is designed with the reader in mind presenting the historical development of ideas to frame and center new concepts as well as providing primary and summative sources for all topics covered These sources help to provide definitive information for the reader ensuring that all information is peer reviewed and thoroughly tested Features The development of key ideas is presented in their historical context All

information presented is supported through citations to chemical literature Problems are incorporated throughout the text and full worked out solutions are presented for every problem International Union of Pure and Applied Chemistry style and technical guidelines are followed throughout the text The problems text and presentation are based on years of classroom refinement of teaching pedagogy This textbook is aimed at an advanced high school or general college audience aiming to engage students more directly in the work of chemistry William Tucker s passion for chemistry was inspired by his high school teacher Gary Osborn He left Maine to pursue Chemistry at Middlebury College and after graduating in 2010 he decided to pursue a PhD in Organic Chemistry at the University of Wisconsin Madison At the University of Wisconsin Madison he worked in the laboratory of Dr Sandro Mecozzi where he developed semifluorinated triphilic surfactants for hydrophobic drug delivery After earning his PhD in 2015 he took a fellowship at Boston University as a Postdoctoral Faculty Fellow There he co taught organic chemistry while working in the laboratory of Dr John Caradonna In the Caradonna l boratory he worked on developing a surface immobilized iron oxidation catalyst for the oxidation of C H bonds using dioxygen from the air as the terminal oxidant Throughout all of this work his passion has always been for teaching and working with students both in and out of the classroom He has been lucky for the past six years to work at Concord Academy where his students have through their questions pushed him to think deeper and more critically about chemistry Their curiosity inspires him and their inquisitiveness inspired his writing

Chemistry and Physics for Nurse Anesthesia, Second Edition David Shubert, PhD, John Leyba, PhD, 2013-03-15 Print CourseSmart

Student's Solutions Manual to Accompany Atkins' Physical Chemistry C. A. Trapp, M. P. Cady, Carmen Giunta, 2010 This solutions manual provides the authors detailed solutions to exercises and problems in physical chemistry It comprises solutions to exercises at the end of each chapter and solutions to numerical theoretical and additional problems

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Rasmussen, Earl K. Hyde, Glenn T. Seaborg, George R. Bishop, Richard Wilson, S. Devons, L. J. B. Goldfarb, R. J. Blin-Stoyle, M. A. Grace, 2012-12-06 *Chemistry for JEE (Main & Advanced) Volume 1 (Class XI) by Career Point, Kota* Career Point

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**Photochemical Conversion and Storage of Solar Energy** E. PELIZZETTI, Mario Schiavello, 2012-12-06 The book collects the lectures and the status reports delivered during the Eighth International Conference on Photochemical Conversion and Storage of Solar Energy IPS 8 held in Palermo Italy from 15th to 20th of July 1990 As usual the main theme of the Conference was that of making the point about the trends and the developments of the studies related to the photochemical exploitation of solar energy and also to report the main lines of potential applications Therefore the contributions reflect this point they vary from those reporting basic and fundamental theories to those reporting cases of possible applications For the sake of following the logical line which links each other the various contributions we report the six areas in which the main theme of the conference was divided a Electron and energy transfer in homogeneous and heterogeneous systems b Photosynthesis organized assemblies and biomimetic systems c Photoelectrochemistry d Photocatalysis homogeneous and heterogeneous regime e Environment photochemical and photocatalytic processes f Solar energy materials and photochemical engineering It remains now to thank persons and institutions which made possible the organization of the Conference The persons to thank are all the members of the International and National Organizing Committees and in particular Prof A Sclafani and Dr L Palmisano whose efforts were essential for the success of the Conference



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