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



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



- 2. Would you expect to observe attraction or repulsion between the subatomic particles in Model 1?
- Consider the data in Model 1.
 - w. What are the independent and dependent variables in the data?
 - Write a complete sentence that describes the observed relationship between the independent and dependent variables in Model 1.

 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 × 10⁻⁸ N?

 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 x 10⁻⁸ N?



Coulombic Attraction Worksheet

Stewart C. Bushong

Coulombic Attraction Worksheet:

Molecular Quantum Mechanics Peter W. Atkins, Ronald S. Friedman, 2011 This text unravels those fundamental physical principles which explain how all matter behaves It takes us from the foundations of quantum mechanics through quantum models of atomic molecular and electronic structure and on to discussions of spectroscopy and the electronic and magnetic properties of molecules Solutions Manual for Principles of Physical Chemistry, 3rd Edition, Solutions Manual Hans Kuhn, David H. Waldeck, Horst-Dieter Försterling, 2024-10-25 This is a Solutions Manual to Accompany with solutions to the exercises in the main volume of Principles of Physical Chemistry Third Edition This book provides a unique approach to introduce undergraduate students to the concepts and methods of physical chemistry which are the foundational principles of Chemistry The book introduces the student to the principles underlying the essential sub fields of quantum mechanics atomic and molecular structure atomic and molecular spectroscopy statistical thermodynamics classical thermodynamics solutions and equilibria electrochemistry kinetics and reaction dynamics macromolecules and organized molecular assemblies Importantly the book develops and applies these principles to supramolecular assemblies and supramolecular machines with many examples from biology and nanoscience In this way the book helps the student to see the frontier of modern physical chemistry developments The book begins with a discussion of wave particle duality and proceeds systematically to more complex chemical systems in order to relate the story of physical chemistry in an intellectually coherent manner The topics are organized to correspond with those typically given in each of a two course semester sequence. The first 13 chapters present quantum mechanics and spectroscopy to describe and predict the structure of matter atoms molecules and solids Chapters 14 to 29 present statistical thermodynamics and kinetics and applies their principles to understanding equilibria chemical transformations macromolecular properties and supramolecular machines Each chapter of the book begins with a simplified view of a topic and evolves to more rigorous description in order to provide the student and instructor flexibility to choose the level of rigor and detail that suits them best The textbook treats important new directions in physical chemistry research including chapters on macromolecules principles of interfaces and films for organizing matter and supramolecular machines as well as including discussions of modern nanoscience spectroscopy and reaction dynamics throughout the text

Solutions Manual for Principles of Physical Chemistry, 3rd Edition Hans Kuhn, David H. Waldeck, Horst-Dieter Försterling, 2024-10-29 This is a Solutions Manual to Accompany with solutions to the exercises in the main volume of Principles of Physical Chemistry Third Edition This book provides a unique approach to introduce undergraduate students to the concepts and methods of physical chemistry which are the foundational principles of Chemistry The book introduces the student to the principles underlying the essential sub fields of quantum mechanics atomic and molecular structure atomic and molecular spectroscopy statistical thermodynamics classical thermodynamics solutions and equilibria electrochemistry kinetics and reaction dynamics macromolecules and organized molecular assemblies Importantly the book develops and

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