

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	2.30×10^{-8}
B	 0.20 nm	0.58×10^{-8}
C	 0.30 nm	0.26×10^{-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 0.26×10^{-8} N?

less than 0.26×10^{-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 2.30×10^{-8} N?

Greater than 2.30×10^{-8} N



Coulombic Attraction Answer Key

N Noddings



Coulombic Attraction Answer Key:

Unified Valence Bond Theory of Electronic Structure N. D. Epiotis, 2012-12-06 The bond diagrammatic representation of molecules is the foundation of MOVb theory To a certain extent this kind of representation is analogous to the one on which resonance theory is based and this fact can be projected by a comparison of the various ways in which MOVb theory depicts a species made up of three core and two ligand MO's which define two subsystems containing a total of six electrons and the ways in which resonance theory i.e qualitative VB theory depicts a six electron six AO species such as the pi system of CH₂=CH₂ The 2 different pictorial representations are shown in Scheme 1 so that the analogies are made evident First of all the total MOVb diagrammatic representation of the 6 5 species is obtained by a linear combination of three complete bond diagrams as in A1 which describe the optimal linear combination of 1 MOVb Configuration Wavefunctions CW's By the same token a total VB diagrammatic representation of the 6 6 species can be obtained by writing a dot structure as in B1 and taking this to mean the optimal linear combination of all VB CW's Next we can approximate the MOVb wavefunction of the 6 5 species by one complete or detailed bond diagram A2 No simple VB representation analogy can be given in this case Alternatively we can approximate the MOVb wavefunction by a linear combination of compact bond diagrams as in A3 in the way described before

Multiscale Modelling of Organic and Hybrid Photovoltaics David Beljonne, Jerome Cornil, 2014-08-12 The series Topics in Current Chemistry presents critical reviews of the present and future trends in modern chemical research The scope of coverage is all areas of chemical science including the interfaces with related disciplines such as biology medicine and materials science The goal of each thematic volume is to give the non specialist reader whether in academia or industry a comprehensive insight into an area where new research is emerging which is of interest to a larger scientific audience Each review within the volume critically surveys one aspect of that topic and places it within the context of the volume as a whole The most significant developments of the last 5 to 10 years are presented using selected examples to illustrate the principles discussed The coverage is not intended to be an exhaustive summary of the field or include large quantities of data but should rather be conceptual concentrating on the methodological thinking that will allow the non specialist reader to understand the information presented Contributions also offer an outlook on potential future developments in the field Review articles for the individual volumes are invited by the volume editors Readership research chemists at universities or in industry graduate students

The Quiet Revolution Alan J. Rocke, 1993-01-01 This is one of the most important studies of nineteenth century chemistry produced during the past two decades Building on his equally important earlier book this work will establish Rocke as the leading scholar in this field Frederic L Holmes Yale University With this work Rocke has become the leading authority on German chemistry in the first two thirds of the nineteenth century Kathryn M Olesko Georgetown University

Unified Valence Bond Theory of Electronic Structure Applications N. D. Epiotis, 1983

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Experts, Transactions of the American Crystallographic Association ,1965 **Physics of Complex Colloids** C. Bechinger,F. Sciortino,P. Zihlerl,2013-06-24 Colloids are systems comprised of particles of mesoscopic size suspended in a liquid They have recently been attracting increased attention from scientists and engineers due to the fact that they are nowadays present in many industrial products such as paints oil additives electronic ink displays and drugs Colloids also serve as versatile model systems for phenomena and structures from solid state physics surface science and statistical mechanics and can easily be studied using tabletop experiments to provide insight into processes not readily accessible in atomic systems This book presents the lectures delivered at the 2012 Enrico Fermi School Physics of Complex Colloids held in Varenna Italy in July 2012 The school addressed experimental theoretical and numerical results and methods and the lectures covered a broad spectrum of topics from the starting point of the synthesis of colloids and their use in commercial products The lectures review the state of the art of colloidal science in a pedagogical way discussing both the basics and the latest results and this book will serve as a reference for both students and experts in this rapidly growing field **Catalysis in Chemistry and Physics** Constantinos G. Vayenas,Dionysios G. Tsousis,Eftychia H. Martino,2024-10-01 This monograph explores the profound implications of neutrino discovery and their minuscule masses on our understanding of the Universe It delves into the fundamental composition of matter revealing that neutrinos electrons and positrons are the only indivisible particles The book addresses the crucial question of hadronization the process by which all other particles hadrons bosons etc are formed from electrons positrons and neutrinos It examines what catalyzes this significant transformation which involves a substantial increase in mass By integrating the Rotating Lepton Model RLM of hadrons and bosons with recent experimental data from CERN the book demonstrates the essential role of electrons and positrons in facilitating the synthesis of hadrons and bosons from ambient neutrinos It is a valuable resource for graduates researchers and academics working in the areas of physics chemistry and chemical engineering **Soviet Electrochemistry** ,1985

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