

Model 2: An Electron Between Two Nuclei.

If an electron is placed halfway between the nuclei, then each nucleus is attracted toward the electron.

Figure 2. Nuclei are attracted to an electron.



The (attractive) Coulombic potential energy is given by the sum of the interactions of nucleus A with the electron and nucleus B with the electron.

$$V = \frac{-2.31 \times 10^{-28} \text{ J} \cdot \text{pm}}{50 \text{ pm}} + \frac{-2.31 \times 10^{-28} \text{ J} \cdot \text{pm}}{50 \text{ pm}} = -9.24 \times 10^{-18} \text{ J (attractive)} \quad (2)$$

The net Coulombic potential energy is the sum of the energy of interaction of the two nuclei (given in equation 1) and the energy of interaction of the two nuclei with the electron (given in equation 2):

$$V = 2.31 \times 10^{-18} \text{ J} + (-9.24 \times 10^{-18} \text{ J}) = -6.93 \times 10^{-18} \text{ J} \quad (\text{attractive})$$

Critical Thinking Questions

- Why is "50 pm" in the denominator of each term in equation 2?
 - Show explicitly how the value for the numerator in both terms of equation 2 was obtained from the Coulombic potential energy expression.
- Explain why the numerator in equation 1 is positive, but the numerator in equation 2 is negative.

Chemactivity 32 32 Answers

**Michael P. Garoutte, Ashley B.
Mahoney**



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Chemistry Richard S. Moog, John J. Farrell, 2017-06-26 In the newly updated 7th Edition Chemistry A Guided Inquiry continues to follow the underlying principles developed by years of extensive research on how students learn and draws on testing by those using the POGIL methodology This text follows the principles of inquiry based learning and correspondingly emphasizes underlying chemistry concepts and the reasoning behind them This text provides an approach that follows modern cognitive learning principles by having students learn how to create knowledge based on experimental data and how to test that knowledge

Merrill Chemistry Robert C. Smoot, Smoot, Richard G. Smith, Jack Price, 1998

Introductory Chemistry Michael P. Garoutte, Ashley B. Mahoney, 2015-08-10 The ChemActivities found in Introductory Chemistry A Guided Inquiry use the classroom guided inquiry approach and provide an excellent accompaniment to any one semester Introductory text Designed to support Process Oriented Guided Inquiry Learning POGIL these materials provide a variety of ways to promote a student focused active classroom that range from cooperative learning to active student participation in a more traditional setting

General, Organic, and Biological Chemistry Michael P. Garoutte, 2014-02-24 Classroom activities to support a General Organic and Biological Chemistry text Students can follow a guided inquiry approach as they learn chemistry in the classroom General Organic and Biological Chemistry A Guided Inquiry serves as an accompaniment to a GOB Chemistry text It can suit the one or two semester course This supplemental text supports Process Oriented Guided Inquiry Learning POGIL which is a student focused group learning philosophy of instruction The materials offer ways to promote a student centered science classroom with activities The goal is for students to gain a greater understanding of chemistry through exploration

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Prentice Hall Chemistry, 2000

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