

ELECTRIC POTENTIAL

23.1. IDENTIFY: Apply Eq.(23.2) to calculate the work. The electric potential energy of a pair of point charges is given by Eq.(23.9).

SET UP: Let the initial position of q_2 be point a and the final position be point b , as shown in Figure 23.1.

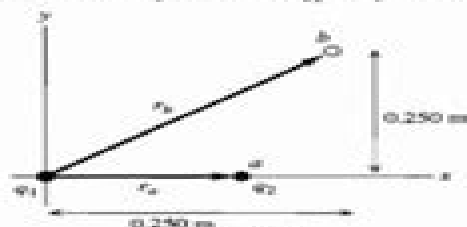


Figure 23.1

$$r_a = 0.150 \text{ m}$$

$$r_b = \sqrt{(0.250 \text{ m})^2 + (0.250 \text{ m})^2}$$

$$r_b = 0.3536 \text{ m}$$

EXECUTE: $W_{a \rightarrow b} = U_a - U_b$

$$U_a = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r_a} = (8.988 \times 10^9 \text{ N} \cdot \text{m}^2 / \text{C}^2) \frac{(+2.40 \times 10^{-8} \text{ C})(-4.30 \times 10^{-8} \text{ C})}{0.150 \text{ m}}$$

$$U_a = -0.6184 \text{ J}$$

$$U_b = \frac{1}{4\pi\epsilon_0} \frac{q_1 q_2}{r_b} = (8.988 \times 10^9 \text{ N} \cdot \text{m}^2 / \text{C}^2) \frac{(+2.40 \times 10^{-8} \text{ C})(-4.30 \times 10^{-8} \text{ C})}{0.3536 \text{ m}}$$

$$U_b = -0.2623 \text{ J}$$

$$W_{a \rightarrow b} = U_a - U_b = -0.6184 \text{ J} - (-0.2623 \text{ J}) = -0.356 \text{ J}$$

EVALUATE: The attractive force on q_2 is toward the origin, so it does negative work on q_2 when q_2 moves to larger r .

23.2. IDENTIFY: Apply $W_{a \rightarrow b} = U_a - U_b$.

SET UP: $U_a = +5.4 \times 10^{-8} \text{ J}$. Solve for U_b .

EXECUTE: $W_{a \rightarrow b} = -1.9 \times 10^{-8} \text{ J} = U_a - U_b$. $U_b = U_a - W_{a \rightarrow b} = 1.9 \times 10^{-8} \text{ J} - (-5.4 \times 10^{-8} \text{ J}) = 7.3 \times 10^{-8} \text{ J}$.

EVALUATE: When the electric force does negative work the electrical potential energy increases.

23.3. IDENTIFY: The work needed to assemble the nucleus is the sum of the electrical potential energies of the protons in the nucleus, relative to infinity.

SET UP: The total potential energy is the scalar sum of all the individual potential energies, where each potential energy is $U = (1/4\pi\epsilon_0)(q_1 q_2 / r)$. Each charge is e and the charges are equidistant from each other, so the total

$$\text{potential energy is } U = \frac{1}{4\pi\epsilon_0} \left(\frac{e^2}{r} + \frac{e^2}{r} + \frac{e^2}{r} \right) = \frac{3e^2}{4\pi\epsilon_0 r}.$$

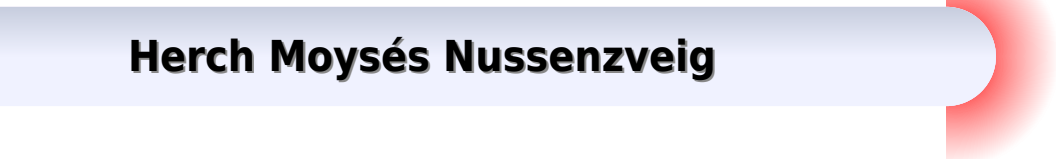
EXECUTE: Adding the potential energies gives

$$U = \frac{3e^2}{4\pi\epsilon_0 r} = \frac{3(1.60 \times 10^{-19} \text{ C})^2 (9.00 \times 10^9 \text{ N} \cdot \text{m}^2 / \text{C}^2)}{2.00 \times 10^{-15} \text{ m}} = 3.46 \times 10^{-13} \text{ J} = 2.16 \text{ MeV}$$

EVALUATE: This is a small amount of energy on a macroscopic scale, but on the scale of atoms, 2 MeV is quite a lot of energy.

Exercicios Resolvidos Fisica 3 Young Freedman

Herch Moysés Nussenzveig



Exercícios Resolvidos Física 3 Young Freedman :

Eletricidade: Luiz Guilherme Rezende Rodrigues, 2022-02-09 O fenômeno elétrico um dos mais antigos conhecidos pelo homem. No entanto, somente nos últimos séculos que suas principais características foram descobertas, assim como as causas de sua existência e de sua propagação. Neste livro buscamos respostas para as dúvidas que permeiam o tema. O que é a eletricidade? Como ela ocorre? Quais suas propriedades fundamentais? De forma didática respondemos a essas e a outras questões mostrando as implicações matemáticas da eletricidade no estudo da física. Junte-se a nós nessa corrente e percorra o circuito que aborda o funcionamento da eletricidade a fim de lançar luz sobre esse assunto que tanto magnetiza e fascina a humanidade.

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