

Physical Chemistry II – Exam 1 SOLUTIONS

Constant	Value in SI Units
h	$6.62607 \times 10^{-34} \text{ J s}$
$\hbar = h/2\pi$	$1.05457 \times 10^{-34} \text{ J s}$
c	$2.99793 \times 10^8 \text{ m/s}$
e	$1.60217 \times 10^{-19} \text{ C}$
m_e	$9.10938 \times 10^{-31} \text{ kg}$
ϵ_0	$8.85419 \times 10^{-12} \text{ C}^2 \text{J}^{-1} \text{m}^{-1}$
R (Rydberg const.)	109737.3 cm^{-1}

- 1.) (17 points) When light with a wavelength of 3000 \AA shines on a metal surface, the kinetic energy of ejected electrons is $2.960 \times 10^{-19} \text{ J}$. When light with a wavelength of 5400 \AA shines on the same metal surface, the kinetic energy of ejected electrons is $1.362 \times 10^{-21} \text{ J}$. From this information, determine the value of Planck's constant (in units of J s). [$1 \text{ \AA} = 10^{-10} \text{ m}$]

For the photoelectric effect, $KE = h\nu - \phi$. From this equation, we can see that a plot with kinetic energy on the y -axis and frequency on the x -axis yields a straight line with the slope equal to Planck's constant h . Therefore, one way to determine Planck's constant from the data given is to calculate the slope,

$$h = \text{slope} = \frac{\Delta KE}{\Delta \nu}$$

The kinetic energy values are given in the problem, but the frequencies must be calculated from the wavelengths.

$$\begin{aligned} \nu_1 &= \frac{c}{\lambda_1} \\ &= \frac{2.99793 \times 10^8 \text{ m/s}}{(3000 \text{ \AA}) \left(\frac{10^{-10} \text{ m}}{1 \text{ \AA}} \right)} \\ \nu_1 &= 9.993 \times 10^{14} \text{ s}^{-1} \end{aligned}$$

$$\begin{aligned} \nu_2 &= \frac{c}{\lambda_2} \\ &= \frac{2.99793 \times 10^8 \text{ m/s}}{(5400 \text{ \AA}) \left(\frac{10^{-10} \text{ m}}{1 \text{ \AA}} \right)} \\ \nu_2 &= 5.552 \times 10^{14} \text{ s}^{-1} \end{aligned}$$

Physical Chemical Self Test Solution

RJ Shavelson



Physical Chemical Self Test Solution:

Decoding **Physical Chemical Self Test Solution**: Revealing the Captivating Potential of Verbal Expression

In a period characterized by interconnectedness and an insatiable thirst for knowledge, the captivating potential of verbal expression has emerged as a formidable force. Its capability to evoke sentiments, stimulate introspection, and incite profound transformations is genuinely awe-inspiring. Within the pages of "**Physical Chemical Self Test Solution**," a mesmerizing literary creation penned with a celebrated wordsmith, readers attempt an enlightening odyssey, unraveling the intricate significance of language and its enduring affect our lives. In this appraisal, we shall explore the book is central themes, evaluate its distinctive writing style, and gauge its pervasive influence on the hearts and minds of its readership.

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