

## Physical Chemistry - ACS Quantum Mechanics Final Exam Questions and Answers 2024 review

who assumed the energy of all oscillators in a blackbody was quantized? what was it said to be quantized by? -

**Answer>>** Planck;  $E = nh\nu$  where  $n$ =quantum number,  $h$ =Planck's constant, and  $\nu$ =frequency of the oscillator

what did Einstein propose through use of Planck's quantization of energy theory? - **Answer>>** that radiation itself existed as packets of energy (called photons) with  $E = h\nu$

what is the empirical equation explaining the observed spectrum of hydrogen? - **Answer>>**  $\nu = R_h((1/n_1^2) - (1/n_2^2))$  where  $R_h$  is the Rydberg constant, and  $n_1$  and  $n_2$  are quantum numbers

the angular momentum of the hydrogen atom is quantized by units of what? - **Answer>>**  $h/2\pi$  or  $\hbar$

what is the relation of momentum to wavelength? (de Broglie relation) - **Answer>>**  $\text{wavelength} = h/p$  or  $h/m \cdot v$   
where  $v$  is velocity,  $m$  is mass, and  $h$  is Planck's constant

what is the Schrodinger equation? - **Answer>>** a partial differential equation describing the wave properties of matter. solutions are called wave functions.

equation for the theory that two electrons cannot occupy the same spatial orbital unless they are of opposite spin? (Pauli exclusion principle) - **Answer>>**  $\Psi(1,2) = -\Psi(2,1)$

# Physical Chemistry Acs Exam 2013 Answers

**WJ Hussar**



**Physical Chemistry Acs Exam 2013 Answers:**

## **Physical Chemistry Acs Exam 2013 Answers** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the ability of words has be much more evident than ever. They have the capacity to inspire, provoke, and ignite change. Such could be the essence of the book **Physical Chemistry Acs Exam 2013 Answers**, a literary masterpiece that delves deep into the significance of words and their effect on our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we shall explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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