

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 ν =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>>** $\Psi(1,2) = -\Psi(2,1)$

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