CHEM 1A

 Hydrogen has a red emission line at 656.3 nm, what is the energy and frequency of a photon of this light? Note: Planck's constant = 6.626 x 10⁻³⁴ J-s, speed of light = 2.998 x 10⁸ m/s

$$E_{photon} = hv = \frac{hc}{\lambda}$$

$$E_{photon} = \frac{(6.626 \times 10^{-34} \text{ J·s}) (2.998 \times 10^8 \text{ m/s})}{656.3 \text{ nm} \left(\frac{10^{-9} \text{ m}}{1 \text{ nm}}\right)}$$

$$V = \frac{(2.998 \times 10^8 \text{ m/s})}{656.3 \text{ nm} \left(\frac{10^{-9} \text{ m}}{1 \text{ nm}}\right)}$$

$$E_{photon} = \frac{3.02677861 \times 10^{-19} \text{ J}}{4 \text{ m/s}}$$

$$V = \frac{4.568032912 \times 10^{14} \text{ s}^{-1}}{4 \text{ m/s}}$$

Answer (E): 3.027 x 10⁻¹⁹ J

Answer (v): 4.568 x 10¹⁴ s⁻¹ or Hz

2. What is the de Broglie wavelength for an electron moving at 2.42 x 10° m/s? Note: m_e = 9.109 x 10⁻³¹ kg

$$\lambda = \left[\frac{b}{mei} \right]$$

$$\lambda = \left[\frac{6.626 \times 10^{-34} \text{ J} \cdot \text{s}}{(9.109 \times 10^{-31} \text{ ke}) (2.42 \times 10^6 \text{ m/s})} \right] = 3.00583657 \times 10^{-10} \text{ m}$$

Answer: 3.01 x 10⁻¹⁰ m — many orders of magnitude larger than the diameter of an electron

 Using the Bohr equation, calculate is the change in energy when an electron transitions from n = 3 to n= 2 in a hydrogen atom.

$$\Delta E = -2.18 \times 10^{-18} J \left(\frac{Z^2}{n_{\text{final}}^2} - \frac{Z^2}{n_{\text{binal}}^2} \right)$$

$$\Delta E = -2.18 \times 10^{-18} J \left(\frac{1^2}{2^2} - \frac{1^2}{3^2} \right)$$

$$\Delta E = -3.02777778 \times 10^{-19} J$$

Answer: - 3.03 x 10⁻¹⁹ J

Practice Problems Chapter Quantum Theory

Yi-Tong Ma

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Ouantum Physics Workbook For Dummies Steven Holzner, 2009-12-04 Hands on practice in solving quantum physics problems Quantum Physics is the study of the behavior of matter and energy at the molecular atomic nuclear and even smaller microscopic levels Like the other titles in our For Dummies Workbook series Quantum Physics Workbook For Dummies allows you to hone your skills at solving the difficult and often confusing equations you encounter in this subject Explains equations in easy to understand terms Harmonic Oscillator Operations Angular Momentum Spin Scattering Theory Using a proven practice and review approach Quantum Physics Workbook For Dummies is all you need to get up to speed in Contemporary Quantum Mechanics in Practice Lilia M. Woods, Pablo Rodríguez López, 2024-04-30 problem solving This helpful and pedagogical book offers problems and solutions in quantum mechanics from areas of current research rarely addressed in introductory courses or textbooks It is based on the authors own experience of teaching undergraduate and graduate courses in quantum mechanics and adapts problems from contemporary research publications to be accessible to students Each section introduces key quantum mechanical concepts which are followed by exercises that grow progressively more challenging throughout the chapter The step by step solutions provide detailed mathematical derivations and explore their application to wider research topics This is an indispensable resource for undergraduate and graduate students alike expanding the range of topics usually covered in the classroom as well as for instructors and early career researchers in quantum mechanics quantum computation and communication and quantum information **Survival Guide to General Chemistry** Patrick E. McMahon, Rosemary McMahon, Bohdan Khomtchouk, 2019-02-13 This work evolved over thirty combined years of teaching general chemistry to a variety of student demographics. The focus is not to recap or review the theoretical concepts well described in the available texts Instead the topics and descriptions in this book make available specific detailed step by step methods and procedures for solving the major types of problems in general chemistry Explanations instructional process sequences solved examples and completely solved practice problems are greatly expanded containing significantly more detail than can usually be devoted to in a comprehensive text Many chapters also provide alternative viewpoints as an aid to understanding Key Features The authors have included every major topic in the first semester of general chemistry and most major topics from the second semester Each is written in a specific and detailed step by step process for problem solving whether mathematical or conceptual Each topic has greatly expanded examples and solved practice problems containing significantly more detail than found in comprehensive texts Includes a chapter designed to eliminate confusion concerning acid base reactions which often persists through working with acid base equilibrium Many chapters provide alternative viewpoints as an aid to understanding This book addresses a very real need for a large number of incoming freshman in STEM fields A Comprehensive Guide to Advanced Quantum Mechanics Sanjay Nair, 2025-02-20 Embark on a journey into the captivating realm of quantum physics with our comprehensive guide tailored for undergraduate

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quantum phenomena do not occur in a Hilbert space they occur in a laboratory Global Philosophy Nicholas Maxwell, 2014-11-05 This book is about education learning rational inquiry philosophy science studies problem solving academic inquiry global problems wisdom and above all the urgent need for an academic revolution Despite this range and diversity of topics there is a common underlying theme Education ought to be devoted much more than it is to the exploration real life open problems it ought not to be restricted to learning up solutions to already solved problems especially if nothing is said about the problems that provoked the solutions in the first place A central task of philosophy ought to be to keep alive awareness of our unsolved fundamental problems especially our most fundamental problem of all encompassing all others How can our human world and the world of sentient life more generally imbued with the experiential consciousness free will meaning and value exist and best flourish embedded as it is in the physical universe This is both our fundamental intellectual problem and our fundamental problem of living The essays in this volume seek to provoke a concerted effort to transform our institutions of learning so that they become rationally and effectively devoted to helping us learn how to create a wiser world Our most serious problems of living are so grim so imbued with suffering wasted lives and unnecessary death that the idea of approaching them in a playful spirit seems sacrilegious We need to keep alive tackling of intellectual problems so that playful capacities can be exercised if for no other reason and other reasons there are of course aplenty There are two really worthy impulses behind all rational inquiry delight and compassion Feynman Integral and Feynman's Operational Calculus, 2000-03-16 The aim of this book is to make accessible to mathematicians physicists and other scientists interested in qunatum theory the beautiful but mathematically difficult subjects of the Feynman integral and Feynman's operational calculus Some advantages of the approaches to the Feynman integral which are treated in detail in this book are the following the existence of the Feynman integral is established for very general potentials in all four cases under more restrictive but still broad conditions three of these Feynman integrals agree with one another and with the unitary group from the usual approach to quantum dynamics these same three Feynman integrals possess pleasant stability properties Much of the material covered here was previously available only in the research literature and the book also contains some new results The background material in mathematics and physics that motivates the study of the Feynman integral and Feynman's operational calculus is discussed and detailed proofs are provided for the central results Carl Friedrich von Weizsäcker: Major Texts in Physics Michael Drieschner, 2014-06-13 This book presents a collection of texts by the German physicist and philosopher Carl Friedrich von Weizs cker 1912 2007 for use in seminars on the history epistemology and structure of physics Most texts appear in English for the first time Weizs cker became famous through his works in physics mainly in the early development of nuclear physics Later he would also become well known as a philosopher and analyst of contemporary culture Texts include the original publications of the Weizs cker Bethe formula of nuclear masses and the Bethe Weizs cker cycle which explains the source of

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