

Practice Problems: Quantum Theory

CHEM 1A

1. 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 = 6.626×10^{-34} J·s, speed of light = 2.998×10^8 m/s

$$E_{\text{photon}} = h\nu = \frac{hc}{\lambda}$$

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

$$E_{\text{photon}} = \underline{3.02677861 \times 10^{-19} \text{ J}}$$

$$\nu = \frac{c}{\lambda}$$

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

$$\nu = \underline{4.568032912 \times 10^{14} \text{ s}^{-1}}$$

Answer (E): $3.027 \times 10^{-19} \text{ J}$ Answer (ν): $4.568 \times 10^{14} \text{ s}^{-1}$ or Hz

2. What is the de Broglie wavelength for an electron moving at 2.42×10^6 m/s?
Note: $m_e = 9.109 \times 10^{-31}$ kg

$$\lambda = \left(\frac{h}{mv} \right)$$

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

Answer: $3.01 \times 10^{-10} \text{ m}$ ← many orders of magnitude larger than the diameter of an electron

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

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

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

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

Answer: $-3.03 \times 10^{-19} \text{ J}$

Practice Problems Chapter 7 Quantum Theory

Christian Drosten



Practice Problems Chapter 7 Quantum Theory:

Cracking the GRE Chemistry Subject Test Princeton Review (Firm), 2005 The GRE subject tests are among the most difficult standardized exams Rather than testing general problem solving skills they require highly specialized knowledge The experts at The Princeton Review have thoroughly researched each subject test to provide students with the most thorough up to date information available Students don't need to relearn the entire histories of their fields just what they need to know to earn high scores on the exams Each guide includes one full length practice exam complete with comprehensive explanations for every solution

Quantum Physics Mircea S. Rogalski, Stuart B. Palmer, 2020-11-17 This book presents the basic concepts and methods of quantum mechanics for upper level undergraduate students allowing them to master its application to real physical situations A postulate based treatment is adopted together with a gradual development of the quantum formalism of wave functions operators measurement and temporal evolution Standard topics of one dimensional and atomic motion angular momentum and approximation methods are presented in addition to detailed discussions of many particle systems atomic and nuclear radiation Appropriate mathematical tools and techniques are provided wherever necessary The core text is supplemented by 77 worked examples some of which address more complex issues and aspects of present day research The aim is to make this textbook a realistic introduction to more advanced and specialized texts The material provides full coverage of the subject matter 94 problems with solutions and a further 93 with answers only

Basic Principles and Techniques of Molecular Quantum Mechanics Ralph E. Christoffersen, 2013-03-08 New textbooks at all levels of chemistry appear with great regularity Some fields like basic biochemistry organic reaction mechanisms and chemical thermodynamics are well represented by many excellent texts and new or revised editions are published sufficiently often to keep up with progress in research However some areas of chemistry especially many of those taught at the graduate level suffer from a real lack of up to date textbooks The most serious needs occur in fields that are rapidly changing Textbooks in these subjects usually have to be written by scientists actually involved in the research which is advancing the field It is not often easy to persuade such individuals to set time aside to help spread the knowledge they have accumulated Our goal in this series is to pinpoint areas of chemistry where recent progress has outpaced what is covered in any available textbooks and then seek out and persuade experts in these fields to produce relatively concise but instructive introductions to their fields These should serve the needs of one semester or one quarter graduate courses in chemistry and biochemistry In some cases the availability of texts in active research areas should help stimulate the creation of new courses

New York New York CHARLES R CANTOR Preface This book is not a traditional quantum chemistry textbook Instead it represents a concept that has evolved from teaching graduate courses in quantum chemistry over a number of years and encountering students with diverse backgrounds

Dissipative Quantum Mechanics of Nanostructures Andrei D. Zaikin, Dmitry Golubev, 2019-05-24 Continuing miniaturization of electronic devices together with the quickly growing

number of nanotechnological applications demands a profound understanding of the underlying physics. Most of the fundamental problems of modern condensed matter physics involve various aspects of quantum transport and fluctuation phenomena at the nanoscale. In nanostructures, electrons are usually confined to a limited volume and interact with each other and lattice ions simultaneously, suffering multiple scattering events on impurities, barriers, surface imperfections, and other defects. Electron interaction with other degrees of freedom generally yields two major consequences: quantum dissipation and quantum decoherence. In other words, electrons can lose their energy and ability for quantum interference even at very low temperatures. These two different but related processes are at the heart of all quantum phenomena discussed in this book. This book presents copious details to facilitate the understanding of the basic physics behind a result and the learning to technically reproduce the result without delving into extra literature. The book subtly balances the description of theoretical methods and techniques and the display of the rich landscape of the physical phenomena that can be accessed by these methods. It is useful for a broad readership ranging from master's and PhD students to postdocs and senior researchers.

Quantum Mechanics Shabnam Siddiqui, 2018-10-10

Quantum mechanics is one of the most challenging subjects to learn. It is challenging because quantum phenomenon is counterintuitive and the mathematics used to explain such a phenomenon is very abstract and difficult to grasp. This textbook is an attempt to overcome these challenges. Every chapter presents quantum ideas step by step in a structured way with a comparison between quantum and classical concepts. It provides a clear distinction between classical and quantum logic. Conceptual questions are provided after every important section so that the reader can test their understanding at every step. Such an approach aids in preventing misconceptions. Problem solving is not restricted to solving differential equations and integration. But it requires to systematically and creatively analyze a problem to apply the new and powerful concepts for finding a solution and to understand the physical meaning of the solution. The tutorials on special topics are an effort to teach problem solving by actively engaging the reader in a thinking process to apply the concepts and to understand the physical meaning of the solution. The simulations are provided for some of the topics. The simulations aid in the visualization of the quantum phenomenon and for meaningful understanding of the mathematics. This approach may lead to development of quantum mechanical intuition as well as learning mathematical techniques for problem solving. Most importantly, the book is not flooded with numerous topics that makes the reader confused and distracted; rather, the most important topics are discussed at a deeper level. The understanding of quantum mechanics is incomplete without understanding the early ideas and experiments that lead to the development of the quantum theory. Thus, the first two chapters of the book are dedicated to such topics. The key features of this book are: A simplified structured and step by step introduction to quantum mechanics. The simplification is attained through use of two level system, step by step discussion of important topics in a simplified language at a deeper level, analogies and visualization using illustrations and simulations. A systematic arrangement of topics and

numerous worked out examples The presentation of the structure in the mathematical formalism of quantum mechanics provides clarity in understanding complicated and abstract mathematics It also helps to understand the distinction between the quantum mechanical and classical approaches Conceptual questions at the end of every important section The conceptual questions can be used in a classroom as a point of discussion between an instructor and students Tutorials on special topics Simulations on special topics aid in the visualization of the physical phenomenon and demonstration of the application of mathematics An in depth discussion of the wave particle duality measurement problem and their philosophical implications in Chapter 2 provides an understanding of the broader meaning of quantum mechanics

Quantum 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 problem solving

Time and Timelessness in Fundamental Physics and Cosmology Silvia De Bianchi, Marco Forgione, Laura Marongiu, 2024-08-29

This book offers a clear account of timelessness together with the discussion of temporality in fundamental physics and cosmology The multi disciplinary approach to the problem of time and timelessness shows the remarkable difference between pre relativistic debates and current developments This book thoroughly discusses notions of timelessness and time emerging in the most recent literature on Quantum Gravity String Theory and Cosmology The contributions explore among many aspects the historical philosophical roots of the notions of temporality and atemporality the role of mathematics in defining time and temporality with respect to both order relations and causality approaches to quantum gravity and cosmology that make use of quantum fluids and condensate to approximate space time in general relativity time and timelessness in black holes and the problem of cosmological time in bouncing cosmologies The novelty of this volume lies in the interaction among scientists philosophers and historians in exploring the nature of time and timelessness and the origin of these concepts The book represents a valuable toolkit for researchers and graduate students in physics cosmology philosophy and the history of those fields

Fundamentals of Complementary, Alternative, and Integrative Medicine - E-Book Marc S. Micozzi, 2018-10-08 Selected for Doody's Core Titles 2024 in Complementary Integrative Health Get a solid global foundation of the therapies and evidence based clinical applications of CAI Fundamentals of Complementary Alternative and Integrative Medicine 6th Edition is filled with the most up to date information on scientific theory and research of holistic medicine from experts around the world The 6th edition of this acclaimed text includes all new content on quantum biology and biofields in health and nursing integrative mental health care and homeopathic medicine Its wide range

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Hilbert Space Operators in Quantum Physics Jirí Blank,Pavel Exner,Miloslav Havlíček,2008-09-24 The new edition of this book detailing the theory of linear Hilbert space operators and their use in quantum physics contains two new chapters devoted to properties of quantum waveguides and quantum graphs The bibliography contains 130 new items

Laser Physics Murray, Iii Sargent,2018-03-05 This book treats the interaction of radiation with matter particular attention being paid to the laser Knowledge is assumed of the usual half year introduction of quantum mechanics found in undergraduate physics curricula The material can be covered in two semesters or alternatively the first part Chaps 1 13 can be used as a one semester course in which quantum mechanical aspects of the electromagnetic field are ignored Each chapter is accompanied by problems that illustrate the text and give useful occasionally new results Existing laser media are intrinsically quantum mechanical and are most easily studied with the quantum theory Understanding the laser along these lines enlivens one s understanding of quantum mechanics itself In fact the material constitutes a viable applied alternative for the usual second and third semesters of quantum mechanics

Reviewing **Practice Problems Chapter 7 Quantum Theory**: Unlocking the Spellbinding Force of Linguistics

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