

$$(ii) E = \sqrt{(13.252)^2 + (8.19)^2} \times 10^{-14} \text{ J} = 15.579 \times 10^{-14} \text{ J}$$

$$E = \frac{E_0}{\sqrt{1 - v^2/c^2}} \quad \text{or} \quad 1 - \frac{v^2}{c^2} = \left(\frac{E_0}{E}\right)^2$$

$$v = \left[1 - \left(\frac{E_0}{E}\right)^2\right]^{1/2} c = \left[1 - \left(\frac{8.19}{15.579}\right)^2\right]^{1/2} (3 \times 10^8 \text{ m s}^{-1}) \\ = 0.851c$$

The group velocity will be the same as the particle velocity. Hence,

$$v_g = 0.851c$$

$$\text{Phase velocity } v_p = \frac{c^2}{v} = \frac{c}{0.851} = 1.175c$$

**2.39** The position of an electron is measured with an accuracy of  $10^{-6}$  m. Find the uncertainty in the electron's position after 1 s. Comment on the result.

*Solution.* When  $t = 0$ , the uncertainty in the electron's momentum is

$$\Delta p \geq \frac{h}{2\Delta x}$$

Since  $p = mv$ ,  $\Delta p = m \Delta v$ . Hence,

$$\Delta v \geq \frac{h}{2m\Delta x}$$

The uncertainty in the position of the electron at time  $t$  cannot be more than

$$(\Delta x)_t = t\Delta v \geq \frac{ht}{2m\Delta x} \\ = \frac{(1.054 \times 10^{-34} \text{ J s}) 1 \text{ s}}{2(9.1 \times 10^{-31} \text{ kg}) 10^{-6} \text{ m}} = 57.9 \text{ m}$$

The original wave packet has spread out to a much wider one. A large range of wave numbers must have been present to produce the narrow original wave group. The phase velocity of the component waves has varied with the wave number.

**2.40** If the total energy of a moving particle greatly exceeds its rest energy, show that its de Broglie wavelength is nearly the same as the wavelength of a photon with the same total energy.

*Solution.* Let the total energy be  $E$ . Then,

$$E^2 = c^2 p^2 + m_0^2 c^4 \cong c^2 p^2$$

$$p = \frac{E}{c}$$

$$\text{de Broglie wavelength } \lambda = \frac{h}{p} = \frac{hc}{E}$$

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Contents of Contemporary Mathematical Journals ,1974 Problems and Solutions in Quantum Chemistry and Physics Charles Sidney Johnson, Lee G. Pedersen,1986-01-01 Two hundred and eighty problems with detailed solutions plus 139 exercises all covering quantum mechanics wave mechanics angular momentum molecular spectroscopy scattering theory and related subjects An excellent problem book I would highly recommend it as a required supplement to students taking their first quantum chemistry course *Journal of the American Chemical Society* *Scientific and Technical Aerospace Reports* ,1991 **Energy Research Abstracts** ,1990 **Problems & Solutions in Nonrelativistic Quantum Mechanics** Anton Z. Capri,2002 This invaluable book consists of problems in nonrelativistic quantum mechanics together with their solutions Most of the problems have been tested in class The degree of difficulty varies from very simple to research level The problems illustrate certain aspects of quantum mechanics and enable the students to learn new concepts as well as providing practice in problem solving The book may be used as an adjunct to any of the numerous books on quantum mechanics and should provide students with a means of testing themselves on problems of varying degrees of difficulty It will be useful to students in an introductory course if they attempt the simpler problems The more difficult problems should prove challenging to graduate students and may enable them to enjoy problems at the forefront of quantum mechanics Problems in Quantum Mechanics Emilio d'Emilio, Luigi E. Picasso,2012-02-28 242 solved problems of several degrees of difficulty in nonrelativistic Quantum Mechanics ranging from the themes of the crisis of classical physics through the achievements in the framework of modern atomic physics down to the still alive more intriguing aspects connected e g with the EPR paradox the Aharonov Bohm effect quantum teleportation *Problems and Solutions in Quantum Mechanics* Kyriakos Tamvakis,2005-08-11 This collection of solved problems corresponds to the standard topics covered in established

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*Problems and Solutions on Quantum Mechanics* Yung-Kuo Lim, 1998 The material for these volumes has been selected from 20 years of examination questions for graduate students at the University of California at Berkeley Columbia University University of Chicago MIT SUNY at Buffalo Princeton University and the University of [Applied Science & Technology Index](#), 1981

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Constantinescu, E. Magyari, 2013-10-22 International Series in Natural Philosophy Volume 30 Problems in Quantum Mechanics focuses on the processes principles reactions and methodologies involved in quantum mechanics The publication first elaborates on the mathematical formalism of quantum mechanics simple quantum systems and mean values and uncertainty relations Discussions focus on mean values of dynamical variables uncertainty relations eigenfunctions and the energy spectrum motion in a central field matrix representation of vectors and operators Hilbert spaces and operators in Hilbert space The text then takes a look at mean values and uncertainty relations semi classical approximation and pictures and representations The book takes a look at orbital angular momentum and spin systems of identical particles and perturbation theory Topics include variational method stationary state perturbation theory isotopic spin second quantization properties of angular momentum operators and angular momentum and rotations of coordinate axes The manuscript also ponders on functions used in quantum mechanics relativistic quantum mechanics and radiation theory The publication is a dependable reference for researchers interested in quantum mechanics [International Aerospace Abstracts](#) ,1990

*Quantum Mechanics* K. Kong Wan, 2020-11-01 This is a companion volume to K Kong Wan's textbook Quantum Mechanics A Fundamental Approach published in 2019 by Jenny Stanford Publishing The book contains more than 240 exercises and problems listed at the end of most chapters This essential manual presents full solutions to all the exercises and problems that are designed to help the reader master the material in the textbook Mastery of the material in the book would contribute greatly to the understanding of the concepts and formalism of quantum mechanics *Nature* Sir Norman Lockyer, 1928

**Exploring Quantum Mechanics** Viktor Mikhaïlovich Galit'skiï, Victor Galitski, Boris Karnakov, Vladimir Il'ich Kogan, 2013-02-28 It is notoriously difficult to come up with a new quantum mechanical problem that would be solvable with a pencil and paper within a finite amount of time and that would provide a useful insight into the fascinating world of quantum physics Any person who has taught quantum mechanics is certainly aware that there is a lack of such solvable problems in quantum mechanics In fact it is exactly this deficit of illuminating examples and practical exercises that make learning and teaching quantum physics so complicated It is very difficult to understand fundamentally new concepts without real life examples Despite this difficulty this book remarkably presents some 700 problems in quantum mechanics together with solutions They are largely new to the English speaking audience The problems have been collected over about 60 years first by the lead author the late Prof Victor Galitski Sr Over the years new problems were added and the material polished by Prof Karnakov Finally the translator Prof Victor Galitski Jr has edited the material for the modern English speaking audience and extended it with new problems particularly relevant to modern science **Contemporary Quantum Mechanics in Practice** Lilia M. Woods, Pablo Rodríguez López, 2024-04-30 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

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