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SOLUTIONS 1. See Problem 2, Midterm. 2. Exercise 8.1. The Hamiltonian $H = p^2/2m + g|x|$ (22) suggests that the ground state wave function should be even. Therefore the exponential choice for the trial function decreasing to $\pm\infty$ is $\psi(x) = \sqrt{\alpha} e^{-\alpha|x|}$. (23) The preexponential factor in this function is chosen in such a way that the function is normalized,

SOLUTIONS

Merzbacher Exercise 14.13 In either the Heisenberg or Schrödinger picture, show that if at $t = 0$ a linear harmonic oscillator is in a coherent state, with eigenvalue α , it will remain in a coherent state, with eigenvalue $e^{-i\omega t}\alpha$, at time t .

Merzbach Er So Ls | Wave Function | Particle Physics

The comparison with eq. (5.55), Merzbacher, p. 90, shows that the equation of motion is valid, $d\langle x \rangle/dt = \langle p \rangle/m$. (30) Exercise 5.9 follows as a straightforward consequence of found equations for $\langle x \rangle$ and $\langle p \rangle$. 3. The distribution of the oscillator coordinate in the thermal ensemble is given by $f(x) = \int \rho_n(x) \psi_n^2(x) dx$. (31) 3

Exercise 5 - Michigan State University

LATE WORK POLICY (effective 09/26/2011) Without prior approval from Dr. Petukhov, homework submitted after the posted due date will be docked 10% per day. If submitted 3 days after the posted due date, the highest possible score will be 70%. Homework. Homework #1, due Sep. 14, 2011

PHYS-771

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Solutions of Selected Problems and Answers 785 Chapter 3 Problem 3.1s According to (3.1) the viscosity η is equal to $\mu\tau$, where μ is the shear modulus and τ is a characteristic time of motion of each water molecule; τ is expected to be of the order of the period of molecular vibration T in ice: $\tau = c_1 T = 2\pi c_1 / \omega$, where $\omega = c_2 / m a^2$ B

Solutions of Selected Problems and Answers

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Quantum Mechanics Solution Manual

Solution 1. Assn. 2: Matter Waves and Wave Packets Solution 2. Assn. 3: Expectation Values and Heisenberg Uncertainty Principle Solution 3. Assn. 4: Schrodinger Equations, Dynamics, QM Formalism Solution 4. Assn. 5: One-dimensional Harmonic Oscillator Solution 5.

Quantum Mechanics-I, KSU Physics 811

For Exercise 17.33 through Exercise 17.38, use the equations relating magnitude and apparent brightness given in the section on the magnitude scale in The Brightness of Stars and Example 17.1.. An astronomer is investigating a faint star that has recently been discovered in very sensitive surveys of the sky. The star has a magnitude of 16.

Solved: For Exercise 17.33 through Exercise 17.38, use the ...

Homer Reid's Solutions to Merzbacher Problems: Chapter 8 we have $\int_a^{-a} \Psi^2(x) dx = 2 \int_a^0 \Psi^2(x) dx = 2 \int_a^0 ((a-b)^2 Z b^0 dx + Z a b (a-x)^2 dx) = 2 \int_a^0 (b^2(a-b)^2 + 13(a-b)^3 = 2 \int_a^0 (b^2(a^2+b^2-2ab) + 13(a^3-b^3) - a^2b + b^2a) dx = 2 \int_a^0 (2b^3 - 3ab^2) dx$ so Ψ is normalized by taking $\int_a^{-a} \Psi^2(x) dx = 1$

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Merzbacher Exercise Solutions Quantum Mechanics Eugen Merzbacher Solutions Homer Reid's Solutions to Merzbacher Problems: Chapter 8 4 (b) For a parabolic trial function we take $\Psi(x) = \gamma (a^2 - x^2)$ The normalization integral is $\int_{-a}^a \Psi^2(x) dx = 2 \int_0^a \gamma^2 (a^2 - x^2)^2 dx$ Problems Solutions Quantum Mechanics Eugen Merzbacher

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(4) Scattering Theory: Merzbacher excels here (as to be expected, as this is a portion of his research specialty). Exercise #11.1 is useful in this regard, a numerical exercise associated with wave packets (second edition, page 221). Green's functions are introduced in the span of five pages and utilized throughout chapter eleven.

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for solutions submitted after 4 p.m. on Friday, November 30. Answer all questions. To gain full credit you should explain your reasoning and show all working. Please write neatly and include your name on the front page of your answers. 1. Shankar Exercise 12.5.3. 2. Shankar Exercise 12.5.7. (You may want to read through Ex. 12.5.6 to understand the

Answer all questions. To gain full credit you should ...

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Exercises: Problem set 2: Merzbacher exercises 7.2, 7.3 due February 8, 2000 Exercises: Problem set 3: Angular momentum, - due February 17, 2000 Wave Mechanics; One- and two-body problems; Coulomb field: hydrogen atom; Angular momentum; Suggested reading: Merzbacher: chapter 10 Exercises: Problem set 4: Spherical well - due February 29, 2000

QUANTUM MECHANICS D12-Winter 2000 schedule

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