

5. (a) A one-dimensional harmonic oscillator is characterized by the potential $V(x) = \frac{1}{2}kx^2$, where k is a real positive constant. It can be shown that the frequency is $\omega = \sqrt{k/m}$, where m is the mass of the oscillator. (a) Solve the stationary Schrödinger equation for this potential and find the stationary eigen states for this system. (10 marks)
- (b) Consider a particle with mass m in a one dimensional harmonic potential. At $t = 0$, the normalized wave function is $\psi(x) = \left(\frac{1}{\pi\sigma^2}\right)^{1/4} e^{-x^2/2\sigma^2}$, where $\sigma^2 \neq \frac{\hbar}{m\omega}$ is a constant. Find the probability that the momentum of the particle at $t > 0$ is positive. (10 marks)
6. (a) Prove the following relations for the angular momentum operator: (a) $[L^2, L_x] = 0$; (b) $\mathbf{L} \times \mathbf{L} = i\hbar\mathbf{L}$. (10 marks)
- (b) What is the probability that a measurement of L_x will equal zero for a system with angular momentum of one and is in the state $\frac{1}{\sqrt{14}}(1 \ 2 \ 3)^T$? (10 marks)
7. (a) Using Born approximation, evaluate the differential scattering cross section for scattering of particles of mass m and incident energy E by the repulsive spherical well with potential

$$V(r) = \begin{cases} V_0, & 0 < r < a, \\ 0, & r > a, \end{cases}$$

(10 marks)

where there exist explicit dependence of E and θ .

- (b) Calculate the hard sphere potential of the form

$$V(r) = \begin{cases} 0, & r > r_0, \\ \infty, & r < r_0, \end{cases}$$

where $k_0 r_0 \ll 1$. (a) Assume only s -wave scattering and calculate $\delta_0(k)$, $f(k)$, $\frac{d\sigma}{d\Omega}$ and σ_T . (10 marks)

8. (a) Derive the formulas for the first and second order energy corrections for a time-independent perturbations. Also, derive the first-order corrections to the eigen states. Assume that there is no degeneracy. (10 marks)

- (b) Consider a particle of mass m subjected to the Hamiltonian

$$H = \begin{cases} \frac{p^2}{2m} + \frac{1}{2}m\omega^2 r^2, & 0 \leq r \leq a, \\ \frac{p^2}{2m}, & r > a, \end{cases}$$

where $r = \sqrt{x^2 + y^2}$. Use the second order perturbation to find the corrections to the ground state energy. (10 marks)

9. (a) Consider two angular momenta of magnitudes j_1 and j_2 . The total angular momentum of this system is then $\mathbf{J} = \mathbf{J}_1 + \mathbf{J}_2$, where $\mathbf{J}_1$ and $\mathbf{J}_2$ are commuting operators. Let $|m_1 m_2\rangle$ be the common eigen states of the observables $\{J_1^2, J_2^2, J_{1z}, J_{2z}\}$. Let $|JM\rangle$ be the common eigen states of $\{J^2, J_z\}$. Find all the possible values for m_1 and m_2 . (10 marks)
- (b) Let $\mathbf{S} = \mathbf{S}_1 + \mathbf{S}_2$ be the total angular momentum of two spin $1/2$ particles ($S_1 = S_2 = 1/2$). Calculate the Clebsch-Gordan coefficients $\langle m_1 m_2 | S m_s \rangle$ by successive applications of $S_{\pm} = S_x \pm iS_y$ on the vectors $|S m_s\rangle$. Work separately in the two subspaces $S = 1$ and $S = 0$. (10 marks)

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I. Antoniou, C.S. Calude, M.J. Dinneen



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Unconventional Models of Computation, UMC'2K I. Antoniou, C.S. Calude, M.J. Dinneen, 2012-12-06 This book contains papers presented at the 2nd International Conference on Unconventional Models of Computation UMCK 2K which was held at Solvay Institutes Brussels Belgium in December 2000 Computers as we know them may be getting better and cheaper and doing more for us but they are still unable to cope with many tasks of practical interest Nature though has been computing with molecules and cells for billions of years and these natural processes form the main motivation for the construction of radically new models of computation the core theme of the papers in this volume Unconventional Models of Computation UMCK 2K covers all major areas of unconventional computation including quantum computing DNA based computation membrane computing and evolutionary algorithms **Jharkhand Sahivalye JGGLCCE Main Exam Paper 3 (General Knowledge) 2022** Arihant Experts, 2022-02-01 1 Jharkhand Sachivalaya JGGLCCE 222 provides the complete

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Annual Reviews of Computational Physics VI Dietrich Stauffer, 1999 The sixth volume of the series covers topics ranging from the generation of good random numbers to statistical physics quantum mechanics quantum computers and polymers to protein folding and immunology simulations It should thus be of interest not only to computational physicists but also to experts in computer science as well as theoretical biology

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