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197:32 keV pm = 197:32 MeV fm (5) where $\hbar = h/2\pi$. Wave Function for a Free Particle Problem 5.3, page 224 A free electron has wave function

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 $2m\psi''(z) + \psi(z) = E\psi(z), (3.77)$ where α is the strength of the delta scatterer and $\theta(z)$ is the unit step function (also known as the Heaviside function). We seek the bound state solution of this equation, i.e., a solution with negative energy E .

Problem Solving in Quantum Mechanics

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add(1)and(3):

$2C = A + B + (j+1)A + B(j+1)$ $2C = (j+2)A + (j+1)B$. subtract(1)an

d(3): $2D = A + B + (j+1)A + B(j+1)$ $2D = (j+2)A + (j+1)B$.

Equatethetwoexpressionsfor2C: $(j+2)F = (j+2)A + (j+1)B$.

Equatethetwoexpressionsfor2D: $(j+2)F = (j+2)A + (j+1)B$.

Solvethese for F and B, interms of A.

Multiplythe first by $(j+2)$, thesecond by j , and subtract:

$(j+2)2F = (j+2)(j+2)A + (j+1)(j+2)B$.

Contents

Solution: r_j and p_k are both parity-odd. Consequently, the operator $r_j p_k$ is parity-even and, therefore, it must connect states with the same parity. Since the parity of the wave functions is $(-1)^l$, all the matrix elements are vanishing. 2.3

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Exercise 2.1 An hydrogen atom is subjected to a perturbation $W = \alpha \cdot \mathbf{r}$

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David Griffiths: Introduction to Quantum Mechanics. Here are my solutions to various problems in David J. Griffiths's

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textbook Introduction to Quantum Mechanics, Second Edition. Obviously I can't offer any guarantee that all the solutions are actually correct, but I've given them my best shot. There is an official site listing errata in the textbook.

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Mechanics-3rd

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The evolution is given by the time-dependent Schrodinger equation $i\hbar \frac{\partial}{\partial t} \psi = H\psi$ where H is the Hamiltonian of the system (the energy operator) and \hbar is the reduced Planck constant $h/2\pi$ (with h the Planck constant, allowing conversion from energy to frequency units). 2.2.

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