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When solving
numerical

problems in

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useful to note

that the product

of Planck's

constant $h =$

$6.6261 \times 10^{-34} \text{ J s}$

(1) and the

speed of light

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$c = 2.9979 \times 10^8 \text{ m/s}$

(2) $hc =$

$1239.8 \text{ eV nm} =$

$1239.8 \text{ keV pm} =$

1239.8 MeV fm

(3) where $1 \text{ eV} =$

$1.6022 \times 10^{-19} \text{ J}$

(4) Also, $\hbar c =$

$197.32 \text{ eV nm} =$

$197.32 \text{ keV pm} =$

197.32 MeV fm

(5) where $\hbar =$

$h/2\pi$. Wave

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electron has
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$$-\frac{\hbar^2}{2m^*} \frac{d^2\varphi(z)}{dz^2} - \Gamma\delta(z)\varphi(z) + \Delta E \cdot c\theta(z)\varphi(z) = E\varphi(z), \quad (3.77)$$

where Γ is the
strength of the

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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 .

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in Quantum
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add (1) and (3) : $2\beta C = \beta A + B + \beta(\gamma + 1)A + B(\gamma - 1) \Rightarrow 2C = (\gamma + 2)A + (\gamma/\beta)B$. subtract (1) and (3) : $2D = \beta A + B - \beta(\gamma + 1)A - B(\gamma - 1) \Rightarrow 2D = -\gamma\beta A + (2 - \gamma)B$. Equate the two expressions for $2C$: $(2 - \gamma)F = (\gamma + 2)A + (\gamma/\beta)$

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B. Equate the two expressions for D :
 $(\gamma/\beta)F = -\gamma\beta A + (2-\gamma)B$. Solve these for F and B , in terms of A . Multiply the first by $\beta(2-\gamma)$, then subtract by γ , and subtract:
 $\beta(2-\gamma)^2 F = \beta(4-\gamma^2)A + \gamma(2-\gamma)B$.

Contents

Solution: r_j
and p_k are both

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parity-odd.

Consequently,
the operator r_{jk} 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

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are vanishing.

2.3 Exercise 2.1

An hydrogen atom
is subjected to
a perturbation W

$$W = \lambda \mathbf{S} \cdot \mathbf{r}$$

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his expertise in
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scale. It attempts to describe and account for the properties of molecules and atoms and their constituents—electrons, protons, neutrons, and other more esoteric particles such

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as quarks and
gluons.

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The evolution is
given by the
time-dependent

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Schrodinger
equation $\partial|\psi\rangle / \partial t = -iH|\psi\rangle / \hbar$ 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

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