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numerical

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useful to note

that the product

of Planck's

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

(1) and the speed of light

$c = 2.9979 \times 10^8 \text{ m s}^{-1}$

(2) is $hc =$

$1239.8 \text{ eV nm} =$

$1239.8 \text{ keV pm} =$

1239.8 MeV fm

(3) where $eV =$

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

(4) Also, $\hbar c =$

$197.32 \text{ eV nm} =$

$197.32 \text{ keV pm} =$

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197:32 MeV fm

(5) where $\sim =$
 $h=2\pi$. Wave

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electron has

wave function

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is the basic

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10.12 of

chapters 8, 9

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2 $2m\psi(z)$??? (z)

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$\psi(z) + E \cdot \psi(z) =$

$$\psi(z) = E \psi(z), \quad (3.77)$$

where α is the strength of the delta scatterer and $\psi(z)$ is the unit step function (also known as the Heaviside function). We seek the bound state solution of this

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a solution with
negative
energy E .

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add (1) and (3) : $2C = ?A + B + ?(? + 1)A + B$
 $(? - 1) ? 2C = (? + 2)A +$
 $(? / ?)B$. subtract
(1) and (3) : $2D = ?A +$
 $B - ?(? + 1)A - B - (? - 1)$

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$2D = 2A + (2)B$.

Equate the two expressions for $2C$: $(2)F = (2+2)A + (2/2)B$.

B . Equate the two expressions for $2D$:

$(2/2)F = 2A + (2)B$. Solve these for F and B , in terms of A .

Multiply the first by (2) , then subtract by (2) , and subtract:

$(2)F = (4+2)A + (2)B$.

$(2)F = (4+2)A + (2)B$.

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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

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of the wave functions is $(\psi_1)_1$, all the matrix elements are vanishing.

2.3 Exercise 2.1

An hydrogen atom is subjected to a perturbation W
 $W = \alpha S \cdot r$

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behaviour of
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on the atomic
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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 $\hbar/2\pi$

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(with h the

Planck constant,
allowing

conversion from

energy to

frequency

units). 2.2.

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