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$2m\psi'(z) = \psi''(z) + E\psi(z)$ , (3.77) where  $V$  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

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state solution of this equation, i.e., a solution with negative energy  $E$ .

## *Problem Solving in Quantum Mechanics*

add(1)and(3):  $2C = A + B + (n+1)A + B(n+1) \Rightarrow 2C = (n+2)A + (n+1)B$ .

subtract(1)and(3):  $2D = A + B - (n+1)A - B(n+1) \Rightarrow 2D = -nA - (n+1)B$ .

Equate the two expressions for  $2C$ :  $(2n+2)F = (n+2)A + (n+1)B$ .

Equate the two expressions for  $2D$ :  $(-2n)F = -nA - (n+1)B$ . Solve these for  $F$  and  $B$ , in terms of  $A$ .

Multiply the first by  $(2n)$ , the second by  $(-2)$ , and subtract:  $(2n+2)2F = (4n+2)A + (2n+2)B$ .

## *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 Exercise 2.1 An hydrogen atom is subjected to a perturbation  $W = \lambda S \cdot r$

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Solutions to selected exercises and problems. Selected answers to the problems in the book can be accessed by clicking the chapter links below. The complete solutions manual is available to adopting lecturers only. Chapter 00 Introduction and orientation (PDF) Chapter 01 The foundations of quantum mechanics (PDF) Chapter 02

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Problems in Quantum Mechanics ( with solutions) , ( Cambridge University Press ) , 1995 .  
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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  $h/2\pi$

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(with  $h$  the Planck constant, allowing conversion from energy to frequency units). 2.2.

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