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$2.2m \cdot (z) - (z) (z)+ E \cdot c (z) (z)=E (z), (3.77)$ where δ 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

On this webpage you will find my solutions to the third edition of "Introduction to Quantum Mechanics" by David J. Griffiths. Here is a link to the book's page on amazon.com. If you find my work useful, please consider making a donation.

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Thus, $u(k) = | \psi(k) |^2 = u(k)$ Note that, since we have a free particle, its momentum wave function will also be an energy eigenfunction and will evolve in time in a trivial way: $\psi(k, t) = \psi(k) e^{-i\hbar k^2 t/2m}$ Its corresponding probability density $u(k)$ will be time independent.

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$l(l+1) \hbar^2 - \hbar^2/4$, which is to say, $l^2 + l + 1/4 = \hbar^2 m^2$, or $(l + 1/2)^2 = \hbar^2 m^2$, or $l = \hbar m - 1/2$. [Our present equation depends only on $\hbar^2 m^2$, and hence is the same for either sign, but the solution to Problem 4.39 assumed $l + 1/2 > 0$ (else ψ is not normalizable), so we need $|m|$ here.] Quoting 4.39: $E = \hbar^2 k^2/2m$

Contents

4. " Quantum Mechanics: 500 Problems With Solutions by Aruldhas " Total pages: 384 pages; Publisher: Prentice Hall India Learning Private; This Quantum mechanics book has covered 500 problems with each and every solution. All the concepts have explained approachable in an effective manner. Author G. Aruldhas has written many books.

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Problem of time - Wikipedia

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