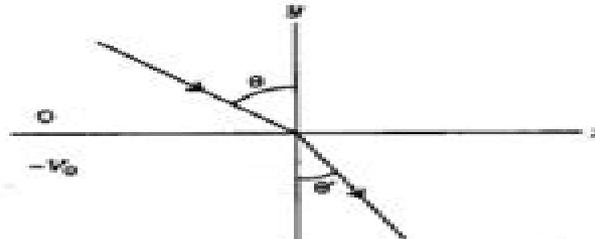


7. Consider the potential field $V(x, y)$ which is 0 and $-V_0$ ($V_0 > 0$) respectively in the regions of y greater and less than zero. Let θ and θ' be the angles of incidence and refraction of the particle with the y -axis at the point of incidence as it crosses the x -axis. The ratio $\sin(\theta)/\sin(\theta')$ is given (in terms of $\Delta = V_0/E$) by



- (a) $\sqrt{1 + \frac{2V_0}{E}}$
 (b) $\sqrt{1 + \frac{V_0}{E}}$
 (c) $1 + \frac{V_0}{E}$
 (d) $1 + \frac{2V_0}{E}$

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8. Consider the simple Bohr model of the H atom. Its ground state ($n = 1$) has an energy of -13.6 eV. The wavelength of the electromagnetic radiation emitted when the atom makes a transition from the first excited ($n = 2$) state to the ground state is
- (a) 1.22×10^{-5} cm
 (b) 2.44×10^{-5} cm
 (c) 6.22×10^{-5} cm
 (d) 4.32×10^{-5} cm
9. Radon has a half-life of 3.8 days. If we start with 10^{-24} gm of radon, the amount of it which will be left after 38 days is
- (a) 10^{-4} gm
 (b) 10^{-2} gm
 (c) 10^{-6} gm
 (d) 10^{-3} gm

Physics Entrance Exam

S. O. Pillai



Physics Entrance Exam:

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