

# Solutions to Problems in Goldstein, *Classical Mechanics*, Second Edition

Homer Reid

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## Chapter 1

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### Problem 1.1

A nucleus, originally at rest, decays radioactively by emitting an electron of momentum  $1.73 \text{ MeV}/c$ , and at right angles to the direction of the electron a neutrino with momentum  $1.00 \text{ MeV}/c$ . (The  $\text{MeV}$  (million electron volt) is a unit of energy, used in modern physics, equal to  $1.60 \times 10^{-6} \text{ erg}$ . Correspondingly,  $\text{MeV}/c$  is a unit of linear momentum equal to  $5.34 \times 10^{-17} \text{ gm-cm/sec.}$ ) In what direction does the nucleus recoil? What is its momentum in  $\text{MeV}/c$ ? If the mass of the residual nucleus is  $3.90 \times 10^{-27} \text{ gm}$ , what is its kinetic energy, in electron volts?

Place the nucleus at the origin, and suppose the electron is emitted in the positive  $y$  direction, and the neutrino in the positive  $x$  direction. Then the resultant of the electron and neutrino momenta has magnitude

$$|\mathbf{p}_{e+\nu}| = \sqrt{(1.73)^2 + 1^2} = 2 \text{ MeV}/c,$$

and its direction makes an angle

$$\theta = \tan^{-1} \frac{1.73}{1} = 60^\circ$$

with the  $x$  axis. The nucleus must acquire a momentum of equal magnitude and directed in the opposite direction. The kinetic energy of the nucleus is

$$T = \frac{p^2}{2m} = \frac{4 \text{ MeV}^2 c^{-2}}{2 \cdot 3.9 \cdot 10^{-27} \text{ gm}} \cdot \frac{1.78 \cdot 10^{-27} \text{ gm}}{1 \text{ MeV } c^{-2}} = 9.1 \text{ eV}$$

This is much smaller than the nucleus rest energy of several hundred  $\text{GeV}$ , so the non-relativistic approximation is justified.

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**AW Rasmussen**



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