Solutions to Problems in Goldstein, Classical Mechanics, Second Edition

Homer Reid

August 22, 2000

Chapter 1

Problem 1.1

A nucleus, originally at rost, decays radioactively by constring an electron of moancasum 1.78 MeV/c, and at right angles to the direction of the electron a neutrino with momentum 1.00 MeV/c. (The MeV (million electron volt) is a unit of energy, used in modern physics, equal to 1.60 \times 10⁻⁶ erg. Correspondingly, MeV/c is a unit of linear momentum equal to 5.34 \times 10⁻¹⁷ gm cm/sec.) In what direction does the usedens receil? What is its momentum in MeV/c? If the mass of the residual nucleus is 3.90 \times 10⁻²² gm, what is its kinetic energy, in electron volts?

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

$$|\mathbf{p}_{m_1 \, \nu}| = \sqrt{(1.73)^2 + 1^2} = 2 \text{ MeV/}e$$
,

and its direction makes an angle

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

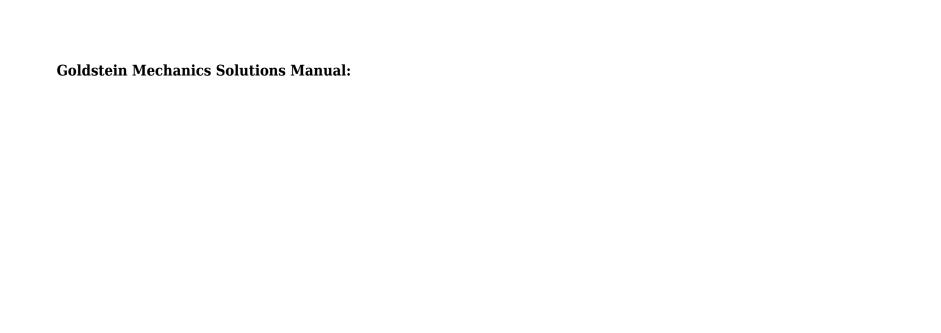
with the x axis. The nucleus must acquire a momentum of equal magnitude and directed in the opposite direction. The kinetic energy of the nucleus is

$$T = \frac{p^2}{2m} = \frac{4 \text{ MeV}^2 \text{ e}^{-2}}{2 \cdot 3.9 \cdot 10^{-22} \text{ sm}} \cdot \frac{1.78 \cdot 10^{-27} \text{ gm}}{1 \text{ MeV e}^{-2}} = 9.1 \text{ ev}$$

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

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- 1. Understanding the eBook Goldstein Mechanics Solutions Manual
 - The Rise of Digital Reading Goldstein Mechanics Solutions Manual
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Goldstein Mechanics Solutions Manual
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Goldstein Mechanics Solutions Manual
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Goldstein Mechanics Solutions Manual
 - Personalized Recommendations
 - Goldstein Mechanics Solutions Manual User Reviews and Ratings
 - Goldstein Mechanics Solutions Manual and Bestseller Lists
- 5. Accessing Goldstein Mechanics Solutions Manual Free and Paid eBooks
 - Goldstein Mechanics Solutions Manual Public Domain eBooks
 - Goldstein Mechanics Solutions Manual eBook Subscription Services
 - Goldstein Mechanics Solutions Manual Budget-Friendly Options

- 6. Navigating Goldstein Mechanics Solutions Manual eBook Formats
 - o ePub, PDF, MOBI, and More
 - Goldstein Mechanics Solutions Manual Compatibility with Devices
 - Goldstein Mechanics Solutions Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - o Adjustable Fonts and Text Sizes of Goldstein Mechanics Solutions Manual
 - Highlighting and Note-Taking Goldstein Mechanics Solutions Manual
 - Interactive Elements Goldstein Mechanics Solutions Manual
- 8. Staying Engaged with Goldstein Mechanics Solutions Manual
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Goldstein Mechanics Solutions Manual
- 9. Balancing eBooks and Physical Books Goldstein Mechanics Solutions Manual
 - Benefits of a Digital Library
 - o Creating a Diverse Reading Collection Goldstein Mechanics Solutions Manual
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Goldstein Mechanics Solutions Manual
 - Setting Reading Goals Goldstein Mechanics Solutions Manual
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Goldstein Mechanics Solutions Manual
 - Fact-Checking eBook Content of Goldstein Mechanics Solutions Manual
 - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements

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