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

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# 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<sup>-6</sup> erg. Correspondingly, MeV/c is a unit of linear momentum equal to 5.34  $\times$  10<sup>-17</sup> 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<sup>-22</sup> 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

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

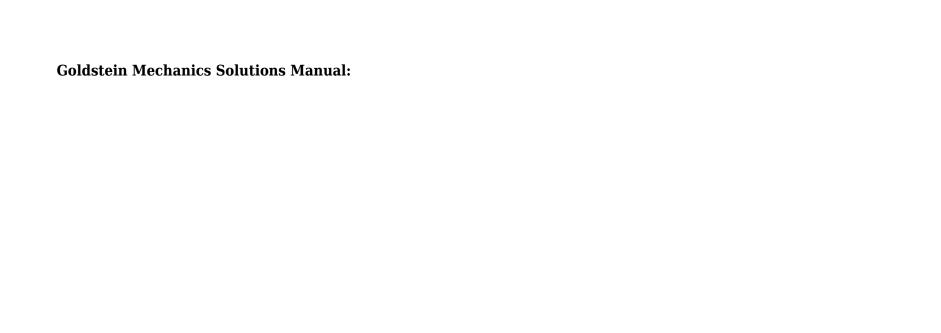
with the x axis. The nucleus must acquire a momentum of equal magnitude and directed in the opposite direction. The kinetic energy of the nucleus is

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

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

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### **Table of Contents Goldstein Mechanics Solutions Manual**

- 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
  - 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
  - o 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
  - 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
  - Interactive and Gamified eBooks

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