

Solutions to Problems in Goldstein,
Classical Mechanics, Second Edition

Homer Reid

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Chapter 1

Problem 1.1

A nucleus, originally at rest, decays radioactively by emitting an electron of momentum 1.73 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 1.60×10^{-6} erg. Correspondingly, MeV/c is a unit of linear momentum equal to 5.34×10^{-17} gm cm/sec.) In what direction does the nucleus recoil? What is its momentum in MeV/c? If the mass of the residual nucleus is 3.90×10^{-22} 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

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

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

$$T = \frac{p^2}{2m} = \frac{4 \text{ MeV}^2 c^{-2}}{2 \cdot 3.9 \cdot 10^{-22} \text{ gm}} \cdot \frac{1.73 \cdot 10^{-27} \text{ gm}}{1 \text{ MeV} c^{-2}} = 9.1 \text{ ev}$$

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

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Fluvial Hydrodynamics - Solutions Manual Subhasish Dey, Sk Zeeshan Ali, 2024-11-01 The book provides the solutions to the unsolved problems given in the book titled *Fluvial Hydrodynamics Hydrodynamic and Sediment Transport Phenomena*. The manual includes the solutions to the problems on Chapters 1 to 11 including the properties of fluid and sediment hydrodynamic principles turbulence in open channel flows sediment threshold bedload transport suspended load transport total load transport bedforms river processes scour and dimensional analysis and similitude. It therefore serves as a guide for graduate students researchers and field engineers to solve the problems in fluvial hydrodynamics. As a prerequisite the background of the readers should have a knowledge in fluvial hydrodynamics described in the said book and an understanding of fundamentals of calculus.

A Brief Introduction to Fluid Mechanics Donald F. Young, Bruce R. Munson, Theodore H. Okiishi, Wade W. Huebsch, 2010-12-21 A Brief Introduction to Fluid Mechanics 5th Edition is designed to cover the standard topics in a basic fluid mechanics course in a streamlined manner that meets the learning needs of today's student better than the dense encyclopedic manner of traditional texts. This approach helps students connect the math and theory to the physical world and practical applications and apply these connections to solving problems. The text lucidly presents basic analysis techniques and addresses practical concerns and applications such as pipe flow open channel flow flow measurement and drag and lift. It offers a strong visual approach with photos illustrations and videos included in the text examples and homework problems to emphasize the practical application of fluid mechanics principles.

_____, 2019-01-16 This book deals with the interplay between fundamental physics and philosophy of physics from the one hand and metaphysics and philosophy from the other hand. It is divided into three independent parts: philosophical general and mathematical. Part I deals with foundations and philosophy of quantum mechanics philosophy of time philosophy of consciousness and free will foundations of mathematics as well as a brief introduction to metaphysics. Part II is a general excursion in the world of fundamental physics: particles fields strings black holes the universe quantum gravity mathematics and history of physics. Part III is a detailed rigorous introduction to the three main areas of fundamental physics: classical mechanics thermodynamics and statistical mechanics quantum mechanics.

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