

Solutions to Problems in Goldstein,
Classical Mechanics, Second Edition

Homer Reid

August 22, 2000

Chapter 1

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 MeV (million electron volt) is a unit of energy, used in modern physics, equal to $1.60 \times 10^{-6} \text{ erg}$. Correspondingly, MeV/c is a unit of linear momentum equal to $5.34 \times 10^{-22} \text{ gm-cm/sec.}$) In what direction does the nucleus recoil? What is its momentum in MeV/c ? If the mass of the residual nucleus is $3.90 \times 10^{-22} \text{ gm}$, 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

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

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

Classical Mechanics Goldstein Problem Solutions

George Brinton Thomas



Classical Mechanics Goldstein Problem Solutions:

Classical Mechanics Peeter Joot, This is a collection of notes on classical mechanics and contains a few things A collection of miscellaneous notes and problems for my personal independent classical mechanics studies A fair amount of those notes were originally in my collection of Geometric Clifford Algebra related material so may assume some knowledge of that subject My notes for some of the PHY354 lectures I attended That class was taught by Prof Erich Poppitz I audited some of the Wednesday lectures since the timing was convenient I took occasional notes did the first problem set and a subset of problem set 2 These notes when I took them likely track along with the Professor s hand written notes very closely since his lectures follow his notes very closely Some assigned problems from the PHY354 course ungraded not submitted since I did not actually take the course I ended up only doing the first problem set and two problems from the second problem set Miscellaneous worked problems from other sources

Classical Analogies in the Solution of Quantum Many-Body Problems Aydın Cem Keser, 2018-11-07 This book addresses problems in three main developments in modern condensed matter physics namely topological superconductivity many body localization and strongly interacting condensates superfluids by employing fruitful analogies from classical mechanics This strategy has led to tangible results firstly in superconducting nanowires the density of states a smoking gun for the long sought Majorana zero mode is calculated effortlessly by mapping the problem to a textbook level classical point particle problem Secondly in localization theory even the simplest toy models that exhibit many body localization are mathematically cumbersome and results rely on simulations that are limited by computational power In this book an alternative viewpoint is developed by describing many body localization in terms of quantum rotors that have incommensurate rotation frequencies an exactly solvable system Finally the fluctuations in a strongly interacting Bose condensate and superfluid a notoriously difficult system to analyze from first principles are shown to mimic stochastic fluctuations of space time due to quantum fields This analogy not only allows for the computation of physical properties of the fluctuations in an elegant way it sheds light on the nature of space time The book will be a valuable contribution for its unifying style that illuminates conceptually challenging developments in condensed matter physics and its use of elegant mathematical models in addition to producing new and concrete results

Classical Mechanics Herbert Goldstein, John L. Safko, Charles P. Poole, 2014-03-20 For thirty years this has been the acknowledged standard in advanced classical mechanics courses This classic text enables students to make connections between classical and modern physics an indispensable part of a physicist s education In this edition Beams Medal winner Charles Poole and John Safko have updated the text to include the latest topics applications and notation to reflect today s physics curriculum They introduce students to the increasingly important role that nonlinearities play in contemporary applications of classical mechanics New numerical exercises help students to develop skills in how to use computer techniques to solve problems in physics Mathematical techniques are presented in detail so that the text remains fully accessible to students who have not had an intermediate

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Encyclopaedia of Mathematics Michiel Hazewinkel,2013-12-01 This ENCYCLOPAEDIA OF MATHEMATICS aims to be a reference work for all parts of mathe matics It is a translation with updates and editorial comments of the Soviet Mathematical Encyclopaedia published by Soviet Encyclopaedia Publishing House in five volumes in 1977 1985 The annotated translation consists of ten volumes including a special index volume There are three kinds of articles in this ENCYCLOPAEDIA First of all there are survey type articles dealing with the various main directions in mathematics where a rather fine subdivi sion has been used The main requirement for these articles has been that they should give a reasonably complete up to date account of the current state of affairs in these areas and that they should be maximally accessible On the whole these articles should be understandable to mathematics students in their first specialization years to graduates from other mathematical areas and depending on the specific subject to specialists in other domains of science en gineers and teachers of mathematics These articles treat their material at a fairly general level and aim to give an idea of the kind of problems techniques and concepts involved in the area in question They also contain background and motivation rather than precise statements of precise theorems with detailed definitions and technical details on how to carry out proofs and constructions The second kind of article of medium length contains more detailed concrete problems results and techniques

Introduction to Classical Mechanics David Morin,2008 *Physics with MAPLE* Frank Y. Wang,2008-09-26 Written by an experienced physicist who is active in applying computer algebra to relativistic astrophysics and education this is the resource for mathematical methods in physics using MapleTM and MathematicaTM Through in depth problems from core courses in the physics curriculum the author guides students to apply analytical and numerical techniques in mathematical physics and present the results in interactive graphics Around 180 simulating exercises are included to facilitate learning by examples This book is a must have for students of physics electrical and mechanical engineering materials scientists lecturers in physics and university libraries Free online MapleTM material at <http://www.wiley-vch.de/templates/pdf/maplephysics.zip> Free online MathematicaTM material at <http://www.wiley-vch.de/templates/pdf/physicswithmathematica.zip> Solutions manual for lecturers available at www.wiley-vch.de/supplements [Encyclopaedia of Mathematics](#) M. Hazewinkel,2013-11-11 [Electronic Products Magazine](#) ,1969 **Science Abstracts** ,1929 [Schaum's Outline of](#)

Lagrangian Dynamics Dare A. Wells, 1967 This book includes 275 solved problems *Bibliography of Scientific and Industrial Reports* ,1969-11 **Mathematica - revue d'analyse numérique et de théorie de l'approximation** ,1999
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