

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

Homer Reid

August 22, 2000

## 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  $5.34 \times 10^{-17} \text{ gm}\cdot\text{cm}/\text{sec}$ .) 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.

# Classical Mechanics Goldstein Solution Manual

**Jicheng Xie**



## **Classical Mechanics Goldstein Solution Manual:**

*Subject Guide to Books in Print*, 1993     *On the Finite Element Solution of General Contact Problems* Panayiotis Papadopoulos, 1991     *Forthcoming Books* Rose Army, 1999     *American Journal of Physics*, 1993     *Elements of Quantum Optics* Brice Scott, 2019-09-03 The book gives a broad coverage of the basic elements necessary to understand and carry out research in quantum optics It presents a variety of theoretical tools and important results for two level and semiconductor media many of which could only be found in the original literature of in specialized monographs up to now The text reveals the close connection between many seemingly unrelated topics The book e Quantum Opticse has been written to meet the requirement of the degree and post graduate students The subject matter has been discussed in such a simple way that the students will find no difficult to understand it Most of the examples given in the book have been selected from various university examination papers and the book cover the syllabus of almost all the universities     **Automatic Control in Space, 2** John A. Aseltine, 1969     *Physics in Canada*, 1972     *Surface Waves in Geomechanics: Direct and Inverse Modelling for Soils and Rocks* Carlo G. Lai, Krzysztof Wilmanski, 2007-03-23 Theories of surface waves develop since the end of XIX century and many fundamental problems like existence phase and group velocities attenuation quality factor mode conversion etc have been in part successfully solved within the framework of such simple models as ideal fluids or linear elasticity However a sufficiently complete presentation of this subject particularly for solids is still missing in the literature The sole exception is the book of I A Viktorov which contains an extensive discussion of fundamental properties of surface waves in homogeneous and stratified linear elastic solids with particular emphasis on contributions of Russian scientists Unfortunately the book has never been translated to English and its Russian version is also hardly available Practical applications of surface waves develop intensively since a much shorter period of time than theories even though the motivation of discoverers of surface waves such as Lord Rayleigh stems from their appearance in geophysics and seismology Nowadays the growing interest in practical applications of surface waves stem from the following two main factors surface waves are ideal for developing relatively cheap and convenient methods of nondestructive testing of various systems spanning from nanomaterials e g     *Fundamental Aspects of Heterogeneous Catalysis Studied by Particle Beams* H.H. Brongersma, R.A. van Santen, 2013-03-08 Present day heterogeneous catalysis is rapidly being transformed from a technical art into a science based technology A major contribution to this important change is the advance of surface spectroscopic techniques able to characterize the complex surfaces of the heterogeneous catalytic system The Advanced Study Institute on which the current proceedings is based has as its primary aim the bringing together of a variety of lecturers outstanding in those fields of experience to enable a broad coverage of different relevant approaches Not only catalyst characterization but also catalytic reactivity had to be covered in order to relate catalyst properties with catalyst performance Since modern catalysis relates catalytic performance to microscopic molecular catalyst features theoretical electronic aspects also had to

be included The Advanced Study Institute had a unique feature in that it brought together physicists catalytic chemists and chemical engineers whom rarely directly interact From physics especially new experimental possibilities of beams were emphasized At present it is possible to obtain very detailed information on model catalysts whilst the applications to practical catalysts are gaining rapidly in sophistication Apart from the plenary lectures the Institute included hot topics to highlight special developments and offered participants the opportunity to present contributed papers either orally or as a poster These contributions formed an integral part of the summer school and significantly enhanced the interaction between participants Inclusion of the hot topics and contributed papers in these proceedings give them an added topical value

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**Understanding Quantum Physics** Michael A. Morrison,1990 Written in an informal yet substantive style that is a joy to read this book provides a uniquely engaging in depth introduction to the concepts of quantum physics and their practical

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**Perturbation Theory Based on Lie Transforms and Its Application to the Stability of Motion Near Sun-perturbed Earth-moon Triangular Libration Points** Ahmed Aly Kamel, 1970

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