

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 $1.73 \text{ MeV}/c$, 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 $5.34 \times 10^{-17} \text{ gm-cm/sec.}$) In what direction does the nucleus recoil? What is its momentum in MeV/c ? If the mass of the residual nucleus is $3.90 \times 10^{-23} \text{ gm}$, 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

$$T = \frac{p^2}{2m} = \frac{4 \text{ MeV}^2 c^{-2}}{2 \cdot 3.9 \cdot 10^{-23} \text{ gm}} \cdot \frac{1.78 \cdot 10^{-27} \text{ gm}}{1 \text{ MeV } c^{-2}} = 9.1 \text{ eV}$$

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

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L Reisser



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Asymptotic Theory of Separated Flows Vladimir V. Sychev, 1998-08-28 Boundary layer separation from a rigid body surface is one of the fundamental problems of classical and modern fluid dynamics The major successes achieved since the late 1960s in the development of the theory of separated flows at high Reynolds numbers are in many ways associated with the use of asymptotic methods The most fruitful of these has proved to be the method of matched asymptotic expansions which has been widely used in mechanics and mathematical physics There have been many papers devoted to different problems in the asymptotic theory of separated flows and we can confidently speak of the appearance of a very productive direction in the development of theoretical hydrodynamics This book will present this theory in a systematic account The book will serve as a useful introduction to the theory and will draw attention to the possibilities that application of the asymptotic approach provides *Applied Mechanics Reviews*, 1972

Introduction to Computational Biology Michael S. Waterman, 1995-06-01 Biology is in the midst of a era yielding many significant discoveries and promising many more Unique to this era is the exponential growth in the size of information packed databases Inspired by a pressing need to analyze that data Introduction to Computational Biology explores a new area of expertise that emerged from this fertile field the combination of biological and information sciences This introduction describes the mathematical structure of biological data especially from sequences and chromosomes After a brief survey of molecular biology it studies restriction maps of DNA rough landmark maps of the underlying sequences and clones and clone maps It examines problems associated with reading DNA sequences and comparing sequences to finding common patterns The author then considers that statistics of pattern counts in sequences RNA secondary structure and the inference of evolutionary history of related sequences Introduction to Computational Biology exposes the reader to the fascinating structure of biological data and explains how to treat related combinatorial and statistical problems Written to describe mathematical formulation and development this book helps set the stage for even more truly interdisciplinary work in biology 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 Maple™ and Mathematica™ 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 Maple™ material at <http://www.wiley-vch.de/templates/pdf/maplephysics.zip> Free online Mathematica™ material at <http://www.wiley-vch.de/templates/pdf/physicswithmathematica.zip> Solutions manual for lecturers available at www.wiley-vch.de/supplements

Gene Patents and Collaborative Licensing Models Geertrui van Overwalle, 2009-06-11 The cost of patent licenses needed to design a new genetic test or treatment may

ultimately prevent research projects getting started as individual components are protected by different patent owners This book examines legal measures which might be used to solve the problem of fragmentation of patents in genetics

Production and Operation Management Solutions Manual Gaotjer,Frazier,1998-09 **El-Hi Textbooks and Serials in Print** ,2006 **A Numerical Solution for the Laminar Wake Behind a Finite Flat Plate** Allen Plotkin,Stanford University. Division of Engineering Mechanics,1968 A numerical solution is presented for the laminar two dimensional viscous incompressible wake behind a finite flat plate The plate is infinitely thin and is aligned parallel to a uniform stream The Reynolds number based on plate length is assumed large enough to allow the formation of boundary layers on the sides of the plate The upstream influence of the trailing edge disturbance necessitates solving the complete Navier Stokes equations in the trailing edge region The aim of the investigation is to calculate an improved first approximation to the solution in this region for large values of the Reynolds number The elliptic equations define a boundary value problem A finite difference solution to equations which closely approximate the Navier Stokes equations is obtained in a rectangular region which includes the trailing edge A relaxation type procedure is used Weighted differences which combine backward and central differences in equal proportion are introduced to provide the upstream influence in the scheme The nonlinear partial differential equations are replaced by linear difference equations and iteration is used until the solutions converge Solutions are obtained for Reynolds numbers larger than 100 000 A complete description of the flow field is provided in the rectangle and downstream wake except in a very small region surrounding the trailing edge Author Genetics Peter J. Russell,1992 Spectroscopy Edward Charles Cyril Baly,1927 **Fundamentals of Genetics** Peter J. Russell,Benjamin A. Pierce,1994 Gives full coverage of genetics including the step by step problem solving approach pioneered by the author The book is suitable for students who have a limited background in biology and chemistry or for briefer courses where there is little time to cover advanced topics **The Publishers' Trade List Annual** ,1986 Books in Print ,1994 **American Journal of Physics** ,1986 Archival journal targeted toward advanced level physics and physics education with its focus on the teaching and cultural aspects of physics Russian Journal of Inorganic Chemistry ,1974 Subject Guide to Books in Print ,2001 **Dissertation Abstracts International** ,2003 **Technical Association of the Pulp and Paper Industry** ,1976 Management Science ,1963 Includes special issues The Professional series in the management sciences
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