

Problem 7.21

A photon may be described classically as a particle of zero mass possessing nevertheless a momentum $h/\lambda = h\nu/c$, and therefore a kinetic energy $h\nu$. If the photon collides with an electron of mass m at rest it will be scattered at some angle θ with a new energy $h\nu'$. Show that the change in energy is related to the scattering angle by the formula

$$\lambda' - \lambda = 2\lambda_c \sin^2 \frac{\theta}{2},$$

where $\lambda_c = h/mc$, known as the Compton wavelength. Show also that the kinetic energy of the recoil motion of the electron is

$$T = h\nu \frac{2 \left(\frac{\lambda_c}{\lambda} \right) \sin^2 \frac{\theta}{2}}{1 + 2 \left(\frac{\lambda_c}{\lambda} \right) \sin^2 \theta/2}.$$

Let's assume the photon is initially travelling along the z axis. Then the sum of the initial photon and electron four-momenta is

$$p_{\mu,i} = p_{\mu,\gamma} + p_{\mu,e} = \begin{pmatrix} 0 \\ 0 \\ h/\lambda \\ h/\lambda \end{pmatrix} + \begin{pmatrix} 0 \\ 0 \\ 0 \\ mc \end{pmatrix} = \begin{pmatrix} 0 \\ 0 \\ h/\lambda \\ mc + h/\lambda \end{pmatrix}. \quad (12)$$

Without loss of generality we may assume that the photon and electron move in the xz plane after the scatter. If the photon's velocity makes an angle θ with the z axis, while the electron's velocity makes an angle ϕ , the four-momentum after the collision is

$$p_{\mu,f} = p_{\mu,\gamma} + p_{\mu,e} = \begin{pmatrix} (h/\lambda') \sin \theta \\ 0 \\ (h/\lambda') \cos \theta \\ h/\lambda' \end{pmatrix} + \begin{pmatrix} p_e \sin \phi \\ 0 \\ p_e \cos \phi \\ \sqrt{m^2 c^2 + p_e^2} \end{pmatrix} = \begin{pmatrix} (h/\lambda') \sin \theta + p_e \sin \phi \\ 0 \\ (h/\lambda') \cos \theta + p_e \cos \phi \\ (h/\lambda') + \sqrt{m^2 c^2 + p_e^2} \end{pmatrix}. \quad (13)$$

Equating (12) and (13) yields three separate equations:

$$(h/\lambda') \sin \theta + p_e \sin \phi = 0 \quad (14)$$

$$(h/\lambda') \cos \theta + p_e \cos \phi = h/\lambda \quad (15)$$

$$h/\lambda' + \sqrt{m^2 c^2 + p_e^2} = mc + h/\lambda \quad (16)$$

From the first of these we find

$$\sin \phi = -\frac{h}{\lambda' p_e} \sin \theta \implies \cos \phi = \left[1 + \left(\frac{h}{\lambda' p_e} \right)^2 \sin^2 \theta \right]^{1/2}$$

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S Nieto



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Applied Mechanics Reviews ,1972 *Fluid Mechanics* Pijush K. Kundu,Ira M. Cohen,David R Dowling,Jesse Capecelatro,2024-08-06 The classic textbook from Pijush Kundu Fluid Mechanics has been once again revised and updated by Dr David Dowling and Dr Jesse Capecelatro to better illustrate this important subject for modern students With expanded topics and concepts presented more clearly in a revised didactic sequence Fluid Mechanics Seventh Edition guides students from the fundamentals to the analysis and application of fluid mechanics including turbulence gravity waves compressible flow and such diverse applications as aerodynamics and geophysical fluid mechanics Its broad and deep coverage provided by 15 Chapters 4 Appendices 144 examples and 568 exercises continues to be ideal for both a first or second course in fluid mechanics at the graduate or advanced undergraduate level and is well suited to the needs of modern scientists engineers mathematicians and others seeking fluid mechanics knowledge As with prior editions the new edition continues to accommodate the needs of upper level students who have completed minimal prior study of fluid mechanics Enriched with 10 new real world examples and 66 new exercises Computational worked examples and exercises using MATLAB have been added For improved clarity and readability much of the text has been re written and chapter ordering has been revised

An Introduction to the Mechanics of Incompressible Fluids Michel O. Deville,2022-09-06 This open access book allows the reader to grasp the main bulk of fluid flow problems at a brisk pace Starting with the basic concepts of conservation laws developed using continuum mechanics the incompressibility of a fluid is explained and modeled leading to the famous Navier Stokes equation that governs the dynamics of fluids Some exact solutions for transient and steady state cases in Cartesian and axisymmetric coordinates are proposed A particular set of examples is associated with creeping or Stokes flows where viscosity is the dominant physical phenomenon Irrotational flows are treated by introducing complex variables The use of the conformal mapping and the Joukowski transformation allows the treatment of the flow around an airfoil The boundary layer theory corrects the earlier approach with the Prandtl equations their solution for the case of a flat plate and the von Karman integral equation The instability of fluid flows is studied for parallel flows using the Orr Sommerfeld equation The stability of a circular Couette flow is also described The book ends with the modeling of turbulence by the Reynolds averaged Navier Stokes equations and large eddy simulations Each chapter includes useful practice problems and their solutions The book is useful for engineers physicists and scientists interested in the fascinating field of fluid mechanics

Classical Mechanics Tai L. Chow,2013-05-01 Emphasizing a modern perspective this book presents a complete account of the classical mechanics of particles and systems for physics students at the advanced undergraduate level This edition has been updated with two new sections and three new chapters as well as four new appendices The text assumes readers have been exposed to courses in calculus and calculus based general physics while no prior knowledge of differential equations is required Each chapter contains homework problems of varying degrees of difficulty to enhance

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CRC Handbook of Lie Group Analysis of Differential Equations Nail H. Ibragimov, 1994-11-28 Volume 2 offers a unique blend of classical results of Sophus Lie with new modern developments and numerous applications which span a period of more than 100 years As a result this reference is up to date with the latest information on the group theoretic methods used frequently in mathematical physics and engineering Volume 2 is divided into three parts Part A focuses on relevant definitions main algorithms group classification schemes for partial differential equations and multifaceted possibilities offered by Lie group theoretic philosophy Part B contains the group analysis of a variety of mathematical models for diverse natural phenomena It tabulates symmetry groups and solutions for linear equations of mathematical physics classical field theory viscous and non Newtonian fluids boundary layer problems Earth sciences elasticity plasticity plasma theory Vlasov Maxwell equations and nonlinear optics and acoustics Part C offers an English translation of Sophus Lie's fundamental paper on the group classification and invariant solutions of linear second order equations with two independent variables This will serve as a concise practical guide to the group analysis of partial differential equations

Mechanics of Fluids Joseph M. Powers, 2023-06-29 An accessible rigorous introduction to fluid mechanics with a robust emphasis on theoretical foundations and mathematical exposition **Cavity Expansion Methods in Geomechanics** Hai-Sui Yu, 2013-06-29 Cavity expansion theory is a simple theory that has found many applications in geotechnical engineering In particular it has been used widely to analyse problems relating to deep foundations in situ

testing underground excavation and tunnelling and wellbore instability Although much research has been carried out in this field all the major findings are reported in the form of reports and articles published in technical journals and conference proceedings To facilitate applications and further development of cavity expansion theory there is a need for the geotechnical community to have a single volume presentation of cavity expansion theory and its applications in solid and rock mechanics This book is the first attempt to summarize and present in one volume the major developments achieved to date in the field of cavity expansion theory and its applications in geomechanics Audience Although it is intended primarily as a reference book for civil mining and petroleum engineers who are interested in cavity expansion methods the solutions presented in the book will also be of interest to students and researchers in the fields of applied mechanics and mechanical engineering

Stochastic Simulations of Clusters Emanuele Curotto, 2009-09-25 Unravels Complex Problems through Quantum Monte Carlo Methods Clusters hold the key to our understanding of intermolecular forces and how these affect the physical properties of bulk condensed matter They can be found in a multitude of important applications including novel fuel materials atmospheric chemistry semiconductors nanotechnology and *Engineering Mechanics* A. Bedford, Wallace L. Fowler, 1999 In *Engineering Mechanics Dynamics* Anthony Bedford and Wallace Fowler present the foundations and applications of dynamics as they do in the classroom The authors explain each concept using carefully developed figures easy to follow examples and real world problems to enhance understanding Throughout the book the authors strive to keep students motivated by placing the subject matter in an engineering context The Bedford Fowler textbook continues to be successful because it teaches engineering mechanics the way good instructors do **Differential Equations: A Dynamical Systems Approach** John H. Hubbard, Beverly H. West, 2012-12-06 Mathematics is playing an ever more important role in the physical and biological sciences provoking a blurring of boundaries between scientific disciplines and a resurgence of interest in the modern as well as the classical techniques of applied mathematics This renewal of interest both in research and teaching had led to the establishment of the series Texts in Applied Mathematics TAM The development of new courses is a natural consequence of a high level of excitement on the research frontier as newer techniques such as numerical and symbolic computer systems dynamical systems and chaos mix with and reinforce the traditional methods of applied mathematics Thus the purpose of this textbook series is to meet the current and future needs of these advances and encourage the teaching of new courses TAM will publish textbooks suitable for use in advanced undergraduate and beginning graduate courses and will complement the Applied Mathematical Sciences AMS series which will focus on advanced textbooks and research level monographs Preface As in Part I this book concentrates on understanding the behavior of differential equations rather than on solving the equations Part I focused on differential equations in one dimension this volume attempts to understand differential equations in n dimensions The existence and uniqueness theory carries over with almost no changes **Encyclopedia of Automotive Engineering**, 2015-03-23 Erstmals eine umfassende

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Nonlinear Mechanics Alexander L. Fetter, John Dirk Walecka, 2006-06-16 In their prior Dover book Theoretical Mechanics of Particles and Continua the authors provided a self contained account of classical mechanics This supplement and update offers a bridge to contemporary mechanics The original book's focus on continuum mechanics forms the basis for this discussion of nonlinear continuous systems 2006 edition

Electromagnetic, Mechanical, and Transport Properties of Composite Materials Rajinder Pal, 2014-08-27 In the design processing and applications of composite materials a thorough understanding of the physical properties is required It is important to be able to predict the variations of these properties with the kind shape and concentration of filler materials The currently available books on composite materials often emphasize mechanical properties and focus on classification applications and manufacturing This limited coverage neglects areas that are important to new and emerging applications For the first time in a single source this volume provides a systematic comprehensive and up to date exploration of the electromagnetic electrical dielectric and magnetic mechanical thermal and mass transport properties of composite materials The author begins with a brief discussion of the relevance of these properties for designing new materials to meet specific practical requirements The

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A Course in Mathematics for Students of Physics: Volume 1 Paul Bamberg, Shlomo Sternberg, 1991-08-30 This textbook available in two volumes has been developed from a course taught at Harvard over the last decade The course covers principally the theory and physical applications of linear algebra and of the calculus of several variables particularly the exterior calculus The authors adopt the spiral method of teaching covering the same topic several times at increasing levels of sophistication and range of application Thus the reader develops a deep intuitive understanding of the subject as a whole and an appreciation of the natural progression of ideas Topics covered include many items previously dealt with at a much more advanced level such as algebraic topology introduced via the analysis of electrical networks exterior calculus Lie derivatives and star operators which are applied to Maxwell's equations and optics This then is a text which breaks new ground in presenting and applying sophisticated mathematics in an elementary setting Any student interpreted in the widest sense with an interest in physics and mathematics will gain from its study

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