

Physics

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(Chapter 7) (Gravitation) (Exercises)
(Class 11)

Question 7.12:

A rocket is fired from the earth towards the sun. At what distance from the earth's centre is the gravitational force on the rocket zero? Mass of the sun = 2×10^{30} kg, mass of the earth = 6×10^{24} kg. Neglect the effect of other planets etc. (orbital radius = 1.5×10^{11} m).

Answer 7.12:

Mass of the Sun, $M_s = 2 \times 10^{30}$ kg and Mass of the Earth, $M_e = 6 \times 10^{24}$ kg

Orbital radius, $r = 1.5 \times 10^{11}$ m and Mass of the rocket = m

Let x be the distance from the centre of the Earth where the gravitational force acting on satellite P becomes zero.

From Newton's law of gravitation, we can equate gravitational forces acting on satellite P under the influence of the Sun and the Earth as:

$$\frac{GmM_s}{(r-x)^2} = Gm \frac{M_e}{x^2}$$

$$\left(\frac{r-x}{x}\right)^2 = \frac{M_s}{M_e}$$

$$\frac{r-x}{x} = \left(\frac{2 \times 10^{30}}{60 \times 10^{24}}\right)^{\frac{1}{2}} = 577.35$$

$$1.5 \times 10^{11} - x = 577.35x$$

$$578.35x = 1.5 \times 10^{11}$$

$$x = \frac{1.5 \times 10^{11}}{578.35} = 2.59 \times 10^8 \text{ m}$$



Question 7.13:

How will you 'weigh the sun', that is estimate its mass? The mean orbital radius of the earth around the sun is 1.5×10^8 km.

Answer 7.13:

Orbital radius of the Earth around the Sun,

$$r = 1.5 \times 10^{11} \text{ m.}$$

Time taken by the Earth to complete one revolution around the Sun.

$$T = 1 \text{ Year}$$

$$= 365.25 \text{ days}$$

$$= 365.25 \times 24 \times 60 \times 60 \text{ s}$$

$$\text{Universal gravitational constant, } G = 6.67 \times 10^{-11} \text{ Nm}^2 \text{ kg}^{-2}$$

Thus, mass of the Sun can be calculated using the relation,

$$M = \frac{4\pi^2 r^3}{GT^2}$$

$$= \frac{4 \times (3.14)^2 \times (1.5 \times 10^{11})^3}{6.67 \times 10^{-11} \times (365.25 \times 24 \times 60 \times 60)^2}$$

$$= \frac{133.24 \times 10}{6.64 \times 10^8} = 2.0 \times 10^{30}$$

Hence, the mass of the Sun is 2×10^{30} kg.

Walker Physics Chapter 7 Solutions

**Allen J. Bard, Larry R. Faulkner, Henry
S. White**



Walker Physics Chapter 7 Solutions:

Mathematical Physics with Differential Equations Yisong Yang, 2023-07-28 Traditional literature in mathematical physics is clustered around classical mechanics especially fluids and elasticity This book reflects the modern development of theoretical physics in the areas of field theories classical quantum and gravitational in which differential equations play essential roles and offer powerful insight Yang here presents a broad range of fundamental topics in theoretical and mathematical physics based on the viewpoint of differential equations The subject areas covered include classical and quantum many body problems thermodynamics electromagnetism magnetic monopoles special relativity gauge field theories general relativity superconductivity vortices and other topological solitons and canonical quantization of fields for which knowledge and use of linear and nonlinear differential equations are essential for comprehension Much emphasis is given to the mathematical and physical content offering an appreciation of the interplay of mathematics and theoretical physics from the viewpoint of differential equations Advanced methods and techniques of modern nonlinear functional analysis are kept to a minimum and each chapter is supplemented with a collection of exercises of varied depths making it an ideal resource for students and researchers alike

Fundamentals of Physics, Extended David Halliday, Robert Resnick, Jearl Walker, 2013-08-13 The 10th edition of Halliday's Fundamentals of Physics Extended building upon previous issues by offering several new features and additions The new edition offers most accurate extensive and varied set of assessment questions of any course management program in addition to all questions including some form of question assistance including answer specific feedback to facilitate success The text also offers multimedia presentations videos and animations of much of the material that provide an alternative pathway through the material for those who struggle with reading scientific exposition Furthermore the book includes math review content in both a self study module for more in depth review and also in just in time math videos for a quick refresher on a specific topic The Halliday content is widely accepted as clear correct and complete The end of chapters problems are without peer The new design which was introduced in 9e continues with 10e making this new edition of Halliday the most accessible and reader friendly book on the market WileyPLUS sold separately from text

Life's Solution Simon Conway Morris, 2003-09-04 The assassin's bullet misses the Archduke's carriage moves forward and a catastrophic war is avoided So too with the history of life Re run the tape of life as Stephen J Gould claimed and the outcome must be entirely different an alien world without humans and maybe not even intelligence The history of life is littered with accidents any twist or turn may lead to a completely different world Now this view is being challenged Simon Conway Morris explores the evidence demonstrating life's almost eerie ability to navigate to a single solution repeatedly Eyes brains tools even culture all are very much on the cards So if these are all evolutionary inevitabilities where are our counterparts across the galaxy The tape of life can only run on a suitable planet and it seems that such Earth like planets may be much rarer than hoped Inevitable humans yes but in a lonely Universe

Introduction

to Particle Physics and Cosmology Grant Mathews, Guobao Tang, 2025-03-07 This textbook provides an accessible introduction to the basic concepts of relativistic cosmology and the standard big bang model of cosmology along with an introduction to quantum field theory and the standard model of particle physics Readers are guided through the key concepts associated with the standard model of cosmology and the standard model of particle physics providing them with the basic foundation needed to understand current research and literature on the physics of the early universe and modern particle physics It culminates with an introduction to the physics of the early universe and its imprint on the large scale structure and the cosmic microwave background It assumes a basic understanding of quantum mechanics classical mechanics and electromagnetism It is aimed at advanced undergraduates and first year beginning graduate students studying particle physics and or cosmology Key Features Provides a summary of the state of the art tools and developments in cosmology and features end of chapter problems alongside the basic tools for studies of inflation theory and early universe cosmology Provides an understandable introduction to special and general relativity Includes an understandable introduction to the standard model of particle physics including group theory gauge theories quantum field theory the Higgs mechanism and the Electroweak Lagrangian **Student Study Guide & Selected Solutions Manual** David D. Reid, 2007 *Nonlinear Laser Dynamics* Kathy Lüdge, 2012-04-09 A distinctive discussion of the nonlinear dynamical phenomena of semiconductor lasers The book combines recent results of quantum dot laser modeling with mathematical details and an analytic understanding of nonlinear phenomena in semiconductor lasers and points out possible applications of lasers in cryptography and chaos control This interdisciplinary approach makes it a unique and powerful source of knowledge for anyone intending to contribute to this field of research By presenting both experimental and theoretical results the distinguished authors consider solitary lasers with nano structured material as well as integrated devices with complex feedback sections In so doing they address such topics as the bifurcation theory of systems with time delay analysis of chaotic dynamics and the modeling of quantum transport They also address chaos based cryptography as an example of the technical application of highly nonlinear laser systems *Geometrical Physics in Minkowski Spacetime* E.G. Peter Rowe, 2013-04-17 From the reviews This attractive book provides an account of the theory of special relativity from a geometrical viewpoint explaining the unification and insights that are given by such a treatment Can be read with profit by all who have taken a first course in relativity physics ASLIB Book Guide **Introductory Quantum Mechanics** Paul R. Berman, 2017-12-26 This book presents a basic introduction to quantum mechanics Depending on the choice of topics it can be used for a one semester or two semester course An attempt has been made to anticipate the conceptual problems students encounter when they first study quantum mechanics Wherever possible examples are given to illustrate the underlying physics associated with the mathematical equations of quantum mechanics To this end connections are made with corresponding phenomena in classical mechanics and electromagnetism The problems at the end of each chapter are intended to help students master the course

material and to explore more advanced topics Many calculations exploit the extraordinary capabilities of computer programs such as Mathematica MatLab and Maple Students are urged to use these programs just as they had been urged to use calculators in the past The treatment of various topics is rather complete in that most steps in derivations are included Several of the chapters go beyond what is traditionally covered in an introductory course The goal of the presentation is to provide the students with a solid background in quantum mechanics *Fundamentals of Physics, A Student's Companion E-Book to Accompany Fundamentals of Physics, Enhanced Problems Version* David Halliday, Robert Resnick, Jearl Walker, 2003 A text for calculus based physics courses introducing fundamental physics concepts and featuring exercises designed to help students apply conceptual understanding to quantitative problem solving with chapter puzzlers checkpoints and reviews and summaries

Diagnostic Radiology: Recent Advances and Applied Physics in Imaging Arun Kumar Gupta, Veena Chowdhury, Niranjana Khandelwal, 2013-07-30 This second edition has been fully updated to provide radiologists with all the recent technological advances in diagnostic radiology Divided into six sections it covers all the key aspects of the imaging ultrasound computed tomography magnetic resonance imaging radiography and interventional radiography and contrast media The final section discusses miscellaneous topics including evidence based radiology radiation protection molecular imaging planning a modern imaging department and common drugs used A separate chapter is dedicated to picture archiving and data management This comprehensive new edition includes nearly 600 full colour radiological images and illustrations Key points Fully updated new edition presenting recent technological advances in diagnostic radiology Covers all key imaging techniques Includes nearly 600 radiological photographs and illustrations Previous edition published in 2007

Pseudo-Complex General Relativity Peter O. Hess, Mirko Schäfer, Walter Greiner, 2015-10-31 This book explores the role of singularities in general relativity GR The theory predicts that when a sufficient large mass collapses no known force is able to stop it until all mass is concentrated at a point The question arises whether an acceptable physical theory should have a singularity not even a coordinate singularity The appearance of a singularity shows the limitations of the theory In GR this limitation is the strong gravitational force acting near and at a super massive concentration of a central mass First a historical overview is given on former attempts to extend GR which includes Einstein himself all with distinct motivations It will be shown that the only possible algebraic extension is to introduce pseudo complex pc coordinates otherwise for weak gravitational fields non physical ghost solutions appear Thus the need to use pc variables We will see that the theory contains a minimal length with important consequences After that the pc GR is formulated and compared to the former attempts A new variational principle is introduced which requires in the Einstein equations an additional contribution Alternatively the standard variational principle can be applied but one has to introduce a constraint with the same former results The additional contribution will be associated to vacuum fluctuation whose dependence on the radial distance can be approximately obtained using semi classical Quantum Mechanics The main point is that pc GR predicts that mass not only

curves the space but also changes the vacuum structure of the space itself In the following chapters the minimal length will be set to zero due to its smallness Nevertheless the pc GR will keep a remnant of the pc description namely that the appearance of a term which we may call dark energy is inevitable The first application will be discussed in chapter 3 namely solutions of central mass distributions For a non rotating massive object it is the pc Schwarzschild solution for a rotating massive object the pc Kerr solution and for a charged massive object it will be the Reissner Nordström solution This chapter serves to become familiar on how to resolve problems in pc GR and on how to interpret the results One of the main consequences is that we can eliminate the event horizon and thus there will be no black holes The huge massive objects in the center of nearly any galaxy and the so called galactic black holes are within pc GR still there but with the absence of an event horizon Chapter 4 gives another application of the theory namely the Robertson Walker solution which we use to model different outcomes of the evolution of the universe Finally the capability of this theory to predict new phenomena is illustrated

The Mathematical Theory of Cosmic Strings M.R. Anderson, 2015-05-06 This book is a comprehensive survey of the current state of knowledge about the dynamics and gravitational properties of cosmic strings treated in the idealized classical approximation as line singularities described by the Nambu Goto action The author's purpose is to provide a standard reference to all work that has been published since the mid 1970s

Problems for Computer Solutions Using BASIC Henry M. Walker, 1980 This book provides the beginning programmer with an introduction to the fundamentals of computer programming a review of several techniques illustrating applications of programming in a variety of different disciplines and a collection of programming problems related to each of these disciplines Its broad scope means that the book is appropriate for introducing BASIC programming to an extremely diverse audience

Fundamentals of Physics, Part 4, Chapters 34 - 38, Enhanced Problems Version David Halliday, Robert Resnick, Jearl Walker, 2003 The primary goal of this text is to provide students with a solid understanding of fundamental physics concepts and to help them apply this conceptual understanding to quantitative problem solving

Explorations in Mathematical Physics Don Koks, 2006-11-30 Have you ever wondered why the language of modern physics centres on geometry Or how quantum operators and Dirac brackets work What a convolution really is What tensors are all about Or what field theory and lagrangians are and why gravity is described as curvature This book takes you on a tour of the main ideas forming the language of modern mathematical physics Here you will meet novel approaches to concepts such as determinants and geometry wave function evolution statistics signal processing and three dimensional rotations You will see how the accelerated frames of special relativity tell us about gravity On the journey you will discover how tensor notation relates to vector calculus how differential geometry is built on intuitive concepts and how variational calculus leads to field theory You will meet quantum measurement theory along with Green functions and the art of complex integration and finally general relativity and cosmology The book takes a fresh approach to tensor analysis built solely on the metric and vectors with no need for one forms This gives a much more

geometrical and intuitive insight into vector and tensor calculus together with general relativity than do traditional more abstract methods Don Koks is a physicist at the Defence Science and Technology Organisation in Adelaide Australia His doctorate in quantum cosmology was obtained from the Department of Physics and Mathematical Physics at Adelaide University Prior work at the University of Auckland specialised in applied accelerator physics along with pure and applied mathematics

Case Studies in Forensic Physics Gregory A. DiLisi, Richard A. Rarick, 2022-06-01 This book focuses on a forensics style re examination of several historical events The purpose of these studies is to afford readers the opportunity to apply basic principles of physics to unsolved mysteries and controversial events in order to settle the historical debate We identify nine advantages of using case studies as a pedagogical approach to understanding forensic physics Each of these nine advantages is the focus of a chapter of this book Within each chapter we show how a cascade of unlikely events resulted in an unpredictable catastrophe and use introductory level physics to analyze the outcome Armed with the tools of a good forensic physicist the reader will realize that the historical record is far from being a set of agreed upon immutable facts instead it is a living changing thing that is open to re visitation re examination and re interpretation

Proceedings of a Seminar on Applications of Differential Equations to Mechanics and Physics Vadim Komkov, 1972 *Theory* Sergei M. Kopeikin, 2014-10-10 Relativistic celestial mechanics investigating the motion celestial bodies under the influence of general relativity is a major tool of modern experimental gravitational physics With a wide range of prominent authors from the field this two volume series consists of reviews on a multitude of advanced topics in the area of relativistic celestial mechanics starting from more classical topics such as the regime of asymptotically flat spacetime light propagation and celestial ephemerides but also including its role in cosmology and alternative theories of gravity as well as modern experiments in this area This first volume of a two volume series is concerned with theoretical foundations such as post Newtonian solutions to the two body problem light propagation through time dependent gravitational fields as well as cosmological effects on the movement of bodies in the solar systems On the occasion of his 80 th birthday these two volumes honor V A Brumberg one of the pioneers in modern relativistic celestial mechanics Contributions include M Soffel On the DSX framework T Damour The general relativistic two body problem G Schafer Hamiltonian dynamics of spinning compact binaries through high post Newtonian approximations A Petrov and S Kopeikin Post Newtonian approximations in cosmology T Futamase On the backreaction problem in cosmology Y Xie and S Kopeikin Covariant theory of the post Newtonian equations of motion of extended bodies S Kopeikin and P Korobkov General relativistic theory of light propagation in multipolar gravitational fields

Don't Be Afraid of Physics Ross Barrett, Pier Paolo Delsanto, 2020-12-23 With the aid of entertaining short stories anecdotes lucid explanations and straight forward figures this book challenges the perception that the world of physics is inaccessible to the non expert Beginning with Neanderthal man it traces the evolution of human reason and understanding from paradoxes and optical illusions to gravitational waves black holes and dark energy On the way it provides insights into

the mind boggling advances at the frontiers of physics and cosmology Unsolved problems and contradictions are highlighted and contentious issues in modern physics are discussed in a non dogmatic way in a language comprehensible to the non scientist It has something for everyone **Electrochemical Methods** Allen J. Bard, Larry R. Faulkner, Henry S.

White, 2022-05-31 The latest edition of a classic textbook in electrochemistry The third edition of *Electrochemical Methods* has been extensively revised to reflect the evolution of electrochemistry over the past two decades highlighting significant developments in the understanding of electrochemical phenomena and emerging experimental tools while extending the book's value as a general introduction to electrochemical methods This authoritative resource for new students and practitioners provides must have information crucial to a successful career in research The authors focus on methods that are extensively practiced and on phenomenological questions of current concern This latest edition of *Electrochemical Methods* contains numerous problems and chemical examples with illustrations that serve to illuminate the concepts contained within in a way that will assist both student and mid career practitioner Significant updates and new content in this third edition include An extensively revised introductory chapter on electrode processes designed for new readers coming into electrochemistry from diverse backgrounds New chapters on steady state voltammetry at ultramicroelectrodes inner sphere electrode reactions and electrocatalysis and single particle electrochemistry Extensive treatment of Marcus kinetics as applied to electrode reactions a more detailed introduction to migration and expanded coverage of electrochemical impedance spectroscopy The inclusion of Lab Notes in many chapters to help newcomers with the transition from concept to practice in the laboratory The new edition has been revised to address a broader audience of scientists and engineers designed to be accessible to readers with a basic foundation in university chemistry physics and mathematics It is a self contained volume developing all key ideas from the fundamental principles of chemistry and physics Perfect for senior undergraduate and graduate students taking courses in electrochemistry physical and analytical chemistry this is also an indispensable resource for researchers and practitioners working in fields including electrochemistry and electrochemical engineering energy storage and conversion analytical chemistry and sensors

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