

Physics

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

Question 7.20:

Two stars each of one solar mass ($= 2 \times 10^{30}$ kg) are approaching each other for a head on collision. When they are at a distance 10^9 km, their speeds are negligible. What is the speed with which they collide? The radius of each star is 10^4 km. Assume the stars to remain undistorted until they collide. (Use the known value of G).

Answer 7.20:

Mass of each star, $M = 2 \times 10^{30}$ kg and Radius of each star, $R = 10^4$ km $= 10^7$ m

Distance between the stars, $r = 10^9$ km $= 10^{12}$ m

For negligible speeds, $v = 0$, the total energy of two stars separated at distance r

$$= -\frac{GMM}{r} + \frac{1}{2}mv^2 = -\frac{GMM}{r} + 0 \quad \dots(i)$$

Now, consider the case when the stars are about to collide: Velocity of the stars $= v$

Distance between the centers of the stars $= 2R$

$$\text{Total kinetic energy of both stars} = \frac{1}{2}Mv^2 + \frac{1}{2}Mv^2 = Mv^2$$

$$\text{Total potential energy of both stars} = -\frac{GMM}{2R}$$

$$\text{Total energy of the two stars} = Mv^2 - \frac{GMM}{2R} \quad \dots(ii)$$

Using the law of conservation of energy, we can write: $Mv^2 - \frac{GMM}{2R} = -\frac{GMM}{r}$

$$\Rightarrow Mv^2 = -\frac{GM}{r} + \frac{GM}{2R} = GM \left(-\frac{1}{r} + \frac{1}{2R} \right) = 6.67 \times 10^{-11} \times 2 \times 10^{30} \left[-\frac{1}{10^{12}} + \frac{1}{2 \times 10^7} \right]$$

$$= 13.34 \times 10^{-29} [-10^{-12} + 5 \times 10^{-8}] = 13.34 \times 10^{-29} \times 5 \times 10^{-8} = 6.67 \times 10^{-32}$$

$$v = \sqrt{6.67 \times 10^{-32}} = 2.58 \times 10^5 \text{ m/s}$$

Question 7.21:

Two heavy spheres each of mass 100 kg and radius 0.10 m are placed 1.0 m apart on a horizontal table. What is the gravitational force and potential at the mid-point of the line joining the centres of the spheres? Is an object placed at that point in equilibrium? If so, is the equilibrium stable or unstable?

Answer 7.21:

Gravitational force and potential at the midpoint of the line joining the centres of the spheres 0. Yes, an object placed at that point in equilibrium. The equilibrium stable is Unstable.

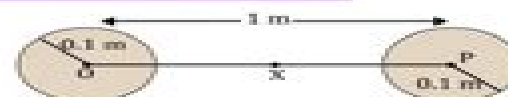
Explanation: The situation is represented in the given figure:

Mass of each sphere, $M = 100$ kg and Separation between the spheres, $r = 1$ m

X is the mid-point between the spheres. Gravitational force at point X will be zero. This is because gravitational force exerted by each sphere will act in opposite directions.

Gravitational potential at point X:

$$= -\frac{GM}{\left(\frac{r}{2}\right)} - \frac{GM}{\left(\frac{r}{2}\right)} = -4 \frac{GM}{r} = \frac{4 \times 6.67 \times 10^{-11} \times 100}{1} = -2.67 \times 10^{-8} \text{ J/Kg}$$



Any object placed at point X will be in equilibrium state, but the equilibrium is unstable. This is because any change in the position of the object will change the effective force in that direction.

Walker Physics Chapter 7 Solutions

David Halliday, Robert Resnick, Jearl Walker



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Mathematical Physics with Differential Equations Yisong Yang, 2023 This textbook uses insight from differential equations to analyse fundamental subjects of modern theoretical physics including classical and quantum mechanics thermodynamics electromagnetism superconductivity gravitational physics and quantum field theories 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 **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 *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 **Fundamentals of Physics, A Student's Companion E-Book to Accompany**

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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

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

Diagnostic Radiology: Recent Advances and Applied Physics in Imaging Arun Kumar Gupta, Veena Chowdhury, Niranjan 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

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and to help them apply this conceptual understanding to quantitative problem solving

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

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 ll see how the accelerated frames of special relativity tell us about gravity On the journey you ll 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

A Short Course in General

Relativity and Cosmology Reinhard Hentschke, Christian Hölbling, 2020-06-23 Unlike most traditional introductory textbooks on relativity and cosmology that answer questions like Does accelerated expansion pull our bodies apart Does the presence of dark matter affect the classical tests of general relativity in a qualitative manner the present text is intended as a foundation enabling students to read and understand the textbooks and many of the scientific papers on the subject And above all the readers are taught and encouraged to do their own calculations check the numbers and answer the above and

other questions regarding the most exciting discoveries and theoretical developments in general relativistic cosmology which have occurred since the early 1980s In comparison to these intellectual benefits the text is short In fact its brevity without neglect of scope or mathematical accessibility of key points is rather unique The authors connect the necessary mathematical concepts and their reward i e the understanding of an important piece of modern physics along the shortest path The unavoidable mathematical concepts and tools are presented in as straightforward manner as possible Even though the mathematics is not very difficult it certainly is beneficial to know some statistical thermodynamics as well as some quantum mechanics Thus the text is suitable for the upper undergraduate curriculum

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

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

New Frontiers in Nanochemistry: Concepts, Theories, and Trends Mihai Putz, 2020-05-06 The final volume of this new innovative and informative three volume set explains and explores the essential basic and advanced concepts from various areas within the nanosciences This volume primarily focuses on increasing awareness of sustainable nanochemistry meaning the social and economic impact of nanochemistry in order to mitigate ecological resource depletion and to promote the exploration of nature as a resource for future benefits This volume adopts a pharmacological lens examining the multitude of ways in which nano research can contribute to the development of pharmaceutical drugs and paying particular attention to toxicology and renewable energy within nanochemistry Under the vast expertise of the editor the volume contains 34 entries contributed by renowned international scientists and scholars The content in this volume covers topics such as anti HIV agents ecotoxicology solar cells and photovoltaic phenomena spectral SAR and more alphabetically organized and accompanied by equations figures

and brief letters in order to emphasize the potential applications of the concepts discussed **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 **Nuclear Reactor**

Kinetics and Control Jeffery Lewins, 2013-10-22 Nuclear Reactor Kinetics and Control highlights the application of classical control methods in the frequency space to the dynamic processes of a nuclear reactor This book contains nine chapters and begins with an introduction to some important mathematical theories related to nuclear engineering such as the Laplace and Fourier transforms linear system stability and the probability theory The succeeding chapters deal with the frequency space of classical linear design A chapter describes a stochastic model for the lumped reactor and presents equations that measure the departure from the mean as well as representative experiments or applications of the theory to neutron detection The discussion then shifts to the aspects of reliability and its consequences for safety of nuclear reactors and some techniques for nonlinear studies centered on the use of the state space and its equations in the time domain The final chapter introduces the modern electric analogue computer and derives the patching or programming rules that can be use to find solutions to problems of interest using the analogous behavior of electric circuits This chapter also provide examples of intrinsic interest in nuclear engineering showing the programming involved and typical results including the slower transients of xenon poisoning and fuel burn up This book is intended for nuclear engineers physicists applied mathematicians and nuclear engineering undergraduate and postgraduate students **The True Origin of the Gravitational Dynamics** Jacob

Schaf, 2017-08-23 This work is mainly motivated by two recent crucial scientific achievements 1 The GPS clocks moving with earth round the sun do not show the gravita tional slowing by the solar field contradicting a fundamental prediction of General Relativity GR and 2 The Higgs theory discloses the origin of the inertial mass of the elementary particles and hence also is responsible for the gravitational fields because mass generates the gravitational fields Many clear cut experimental observations which are in conflict with the current theories are actually being ignored and maintained in standby by the establishment to preserve accepted theories This is not a scientific attitude This is religion The only scientifically sane attitude is acknowledging the reliable experimental observations abandoning the obsolete theories that cannot account for them and searching for a more adequate theory This exactly is what the present work challenges to do and the results are encouraging *Physics of Black Holes* I. Novikov, V. Frolov, 2013-03-09 One of the most exciting predictions of Einstein s theory of gravitationisthat there may exist black holes putative objects whose gravitational fields are so strong that no physical bodies and signals can break free of their pull and escape Even though a completely reliable discovery of a black hole has not yet been made several objects among those scrutinized by astrophysicists will very likely be conformed as black

holes The proof that they do exist and an analysis of their properties would have a significance going far beyond astrophysics Indeed what is involved is not just the discovery of yet another even if extremely remarkable astrophysical object but a test of the correctness of our understanding the properties of space and time in extremely strong gravitational fields Theoretical research into the properties of black holes and into the possible corollaries of the hypothesis that they exist has been carried out with special vigor since the beginning of the 1970s In addition to those specific features of black holes that are important for the interpretation of their possible astrophysical manifestations the theory has revealed a number of unexpected characteristics of physical interactions involving black holes By now a fairly detailed understanding has been achieved of the properties of the black holes their possible astrophysical manifestations and the specifics of the various physical processes involved Furthermore profound links were found between black hole theory and such seemingly very distant fields as thermodynamics information theory and quantum theory

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