

Physics

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(Chapter 5) (Work Energy and Power) (Exercises) (Class 11)

Question 5.22:

A person trying to lose weight (dieter) lifts a 10 kg mass, one thousand times, to a height of 0.5 m each time. Assume that the potential energy lost each time she lowers the mass is dissipated. **(a)** How much work does she do against the gravitational force? **(b)** Fat supplies 3.8×10^7 J of energy per kilogram which is converted to mechanical energy with a 20% efficiency rate. How much fat will the dieter use up?

Answer 5.22:

(a) Mass of the weight, $m = 10$ kg

Height to which the person lifts the weight, $h = 0.5$ m

Number of times the weight is lifted, $n = 1000$

$\therefore$ Work done against gravitational force:

$$= n(mgh)$$

$$= 1000 \times 10 \times 9.8 \times 0.5$$

$$= 49 \times 10^3 \text{ J} = 49 \text{ KJ}$$

(b) Energy equivalent of 1 kg of fat = 3.8×10^7 J

Efficiency rate = 20%

Mechanical energy supplied by the person's body:

$$= \frac{20}{100} \times 3.8 \times 10^7 \text{ J} = \frac{1}{5} \times 3.8 \times 10^7 \text{ J}$$

Equivalent mass of fat lost by the dieter:

$$= \frac{1}{1/5 \times 3.8 \times 10^7} \times 49 \times 10^3 = \frac{245}{3.8} \times 10^{-4} = 6.45 \times 10^{-2} \text{ kg.}$$

Question 5.23:

A family uses 8 kW of power. **(a)** Direct solar energy is incident on the horizontal surface at an average rate of 200 W per square meter. If 20% of this energy can be converted to useful electrical energy, how large an area is needed to supply 8 kW? **(b)** Compare this area to that of the roof of a typical house.

Answer 5.23:

(a) 200 m²

Power used by the family, $P = 8 \text{ kW} = 8 \times 10^3 \text{ W}$

Solar energy received per square metre = 200 W

Efficiency of conversion from solar to electricity energy = 20 %

Area required to generate the desired electricity = A

As per the information given in the question, we have:

$$8 \times 10^3 = 20\% \times (A \times 200)$$

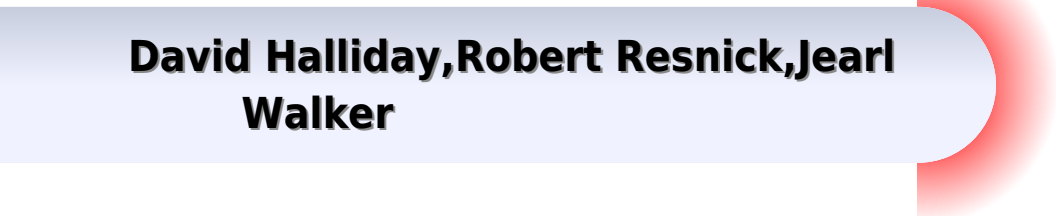
$$= \frac{20}{100} \times A \times 200$$

$$\therefore A = \frac{8 \times 10^3}{40} = 200 \text{ m}^2$$

(b) The area of a solar plate required to generate 8 kW of electricity is almost equivalent to the area of the roof of a building having dimensions 14 m $\times$ 14 m.

Walker Physics Chapter 5 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

Problems and Solutions in Theoretical and Mathematical Physics Willi-Hans Steeb, 1996 The purpose of this book is to supply a collection of problems together with their detailed solution which will prove to be valuable to students as well as to research workers in the fields of mathematics physics engineering and other sciences The topics range in difficulty from elementary to advanced Almost all problems are solved in detail and most of the problems are self contained All relevant definitions are given Students can learn important principles and strategies required for problem solving Teachers will also find this text useful as a supplement since important concepts and techniques are developed in the problems The material was tested in the author's lectures given around the world The book is divided into two volumes Volume I presents the introductory problems for undergraduate and advanced undergraduate students In volume II the more advanced problems together with their detailed solutions are collected to meet the needs of graduate students and researchers Problems included cover most of the new fields in theoretical and mathematical physics such as Lax representation Bäcklund transformation soliton equations Lie algebra valued differential forms Hirota technique Painlevé test the Bethe ansatz the Yang-Baxter relation chaos fractals complexity etc

Fundamentals of Physics, Extended David Halliday, Robert Resnick, Jearl Walker, 2013-08-05 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

Student Study Guide & Selected Solutions Manual David D. Reid, 2007

Adsorption Processes for Water Treatment Samuel D. Faust, Osman M. Aly, 2013-10-22 Adsorption Processes for Water Treatment discusses the application of adsorption in water purification The book is comprised of 10 chapters that detail the carbon and resin adsorptive processes for potable water treatment The text first covers the elements of surface chemistry and then proceeds to discussing adsorption models Chapter 3 tackles the kinetics of adsorption while Chapter 4 deals with batch systems and

fixed fluid beds Next the book talks about the physical and chemical properties of carbon The next two chapters discuss the adsorption of organic compounds and the removal of inorganic compounds respectively The eighth chapter presents operational pilot plant and case studies Chapter 9 discusses the biological activated carbon treatment of drinking water and Chapter 10 covers the adsorption of macroreticular resins The book will be of great use to both researchers and professionals involved in the research and development of water treatment process

Fundamentals of Physics David Halliday, Robert Resnick, Jearl Walker, 2013-08-13 The 10th edition of Halliday Resnick and Walker's Fundamentals of Physics provides the perfect solution for teaching a 2 or 3 semester calculus based physics course providing instructors with a tool by which they can teach students how to effectively read scientific material identify fundamental concepts reason through scientific questions and solve quantitative problems The 10th edition builds upon previous editions by offering new features designed to better engage students and support critical thinking These include NEW Video Illustrations that bring the subject matter to life NEW Vector Drawing Questions that test students conceptual understanding and additional multimedia resources videos and animations that provide an alternative pathway through the material for those who struggle with reading scientific exposition WileyPLUS sold separately from text

De Sitter Invariant Special Relativity Mu-lin Yan, 2015-06-24 Einstein's Special Relativity E SR is the cornerstone of physics De Sitter invariant SR dS AdS SR is a natural extension of E SR hence it relates to the foundation of physics This book provides a description to dS AdS SR in terms of Lagrangian Hamiltonian formulation associated with spacetime metric of inertial reference frames One of the outstanding features of the book is as follows All discussions on SR are in the inertial reference frames This is a requirement due to the first principle of SR theory The descriptions on dS AdS SR in this book satisfy this principle For the curved spacetime in dS AdS SR theory it is highly non trivial

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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 1 **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

Fundamentals of Physics, Volume 1 David Halliday, Robert Resnick, Jearl Walker, 2017-12-11 The first volume of a two volume text that helps students understand physics concepts and scientific problem solving Volume 1 of the Fundamentals of Physics 11th Edition helps students embark on an understanding of physics This loose leaf text covers a full range of topics including measurement vectors motion and force It also discusses energy rotation equilibrium gravitation and oscillations as well temperature and heat The First and Second Law of Thermodynamics are presented as is the Kinetic Theory of Gases The text problems questions and provided solutions guide students in improving their problem solving skills

Quantum Mechanics II Rubin H. Landau, 2008-07-11 Here is a readable and intuitive quantum mechanics text that covers scattering theory relativistic quantum mechanics and field theory This expanded and updated Second Edition with five new chapters emphasizes the concrete and calculable over the abstract and pure and helps turn students into researchers without diminishing their sense of wonder at physics and nature As a one year graduate level course Quantum Mechanics II A Second Course in Quantum Theory leads from quantum basics to basic field theory and lays the foundation for research oriented specialty courses Used selectively the material can be tailored to create a one semester course in advanced topics In either case it addresses a broad audience of students in the physical sciences as well as independent readers whether advanced undergraduates or practicing scientists

The Fokker-Planck Equation Hannes Risken, 2012-12-06 One of the central problems synergetics is concerned with consists in the study of macroscopic qualitative changes of systems belonging to various disciplines such as physics chemistry or electrical engineering When such transitions from one state to another take place fluctuations i e random processes may play an im portant role Over the past decades it has turned out that the Fokker Planck equation pro vides a powerful tool with which the effects of fluctuations close to transition points can be

adequately treated and that the approaches based on the Fokker Planck equation are superior to other approaches e.g. based on Langevin equations. Quite generally the Fokker Planck equation plays an important role in problems which involve noise e.g. in electrical circuits. For these reasons I am sure that this book will find a broad audience. It provides the reader with a sound basis for the study of the Fokker Planck equation and gives an excellent survey of the methods of its solution. The author of this book Hannes Risken has made substantial contributions to the development and application of such methods e.g. to laser physics, diffusion in periodic potentials and other problems. Therefore this book is written by an experienced practitioner who has had in mind explicit applications to important problems in the natural sciences and electrical engineering.

Fractional Calculus View of Complexity Bruce J. West, 2016-01-05. This book is not a text devoted to a pedagogical presentation of a specialized topic nor is it a monograph focused on the author's area of research. It accomplishes both these things while providing a rationale for why the reader ought to be interested in learning about fractional calculus. This book is for researchers who have heard about many

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 sufficiently 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 supermassive 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

Beyond General Relativity: Critical Perspectives on Gravitation, Curvature, and Wave Propagation in Modern Physics Bernard Lavenda, 2025-05-26 What happens when you push a theory beyond its limits You get a theory like general relativity Although coined by Einstein he would be hard pressed to recognize it Einstein constructed a theory that would pertain to geodesic motion or motion at constant velocity Einstein field equations are equivalent to geometrical optics whose characteristic surfaces are those of electromagnetic and not gravitational radiation In fact gravitational energy is not included in the Einstein energy stress tensor As such it excludes catastrophic phenomena like the merger of black holes or neutron stars In fact black holes are what you get when you extend a non Euclidean metric like the Schwarzschild metric beyond its domain of validity Although there exists no solution to Einstein's field equations for two interacting mass points its numerical counterpart wants at being able to describe binary black hole collisions Such singularities were pernicious to Einstein's conception of the universe and he built bridges to avoid them Nonlinear equations like Einstein's cannot be approximated by their linearization over large portions of spacetime thus placing in doubt the propagation of gravitational waves Any wave phenomenon traveling at a finite velocity must show signs of aberration No signs of such have ever been observed The field equations do not possess a mechanism for the emission of gravitational waves least of all for their attenuation

Developments in Mathematical and Conceptual Physics Harish Parthasarathy, 2020-06-22 This book presents concepts of theoretical physics with engineering applications The topics are of an intense mathematical nature involving tools like probability and random processes ordinary and partial differential equations linear algebra and infinite dimensional operator theory perturbation theory stochastic differential equations and Riemannian geometry These mathematical tools have been applied to study problems in mechanics fluid dynamics quantum mechanics and quantum field theory nonlinear dynamical systems general relativity cosmology and electrodynamics A particularly interesting topic of research interest developed in this book is the design of quantum unitary gates of large size using the Feynman diagrammatic approach to quantum field theory Through this book the reader will be able to observe how basic physics can revolutionize technology and also how diverse branches of mathematical physics like large deviation theory quantum field theory general relativity and electrodynamics have many common issues that provide the starting point for unifying the whole of physics namely in the formulation of Grand Unified Theories GUTS

Origins of the Universe Keith Cooper, 2020-09-03 The quest to find a theory of quantum gravity that could potentially explain everything Nearly 60 years ago Nobel Prize winners Arno Penzias and Robert Wilson stumbled across a mysterious hiss of faint radio static that was interfering with their observations They had found the key to unravelling the story of the Big Bang and the origin of our

universe That signal was the Cosmic Microwave Background CMB the earliest light in the universe released 379 000 years after the Big Bang It contains secrets about what happened during the very first tiny increments of time which had consequences that have rippled throughout cosmic history leading to the universe of stars and galaxies that we live in today This is the enthralling story of the quest to understand the CMB radiation and what it can tell us of the origins of time and space from bubble universes to a cyclical cosmos and possibly leading to the elusive theory of quantum gravity itself

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 **Adsorption Technology for Air and Water Pollution Control** Kenneth E. Noll, 1991-10-18 This practical book is valuable for a diversity of applications in both air and water pollution Adsorption Technology usually deals with control of organic compounds such as VOCs pesticides phenolics and complex synthetic organics However it is also used to control certain inorganic compounds such as heavy metals reduced sulfur gases and chlorine Much original work including original figures

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