

EXAMPLE 7-3

GRAVITY ESCAPE SYSTEM

RWP* In a gravity escape system (GES), an enclosed lifeboat on a large ship is deployed by letting it slide down a ramp and then continue in free fall to the water below. Suppose a 4970-kg lifeboat slides a distance of 5.00 m on a ramp, dropping through a vertical height of 2.50 m. How much work does gravity do on the boat?

PICTURE THE PROBLEM

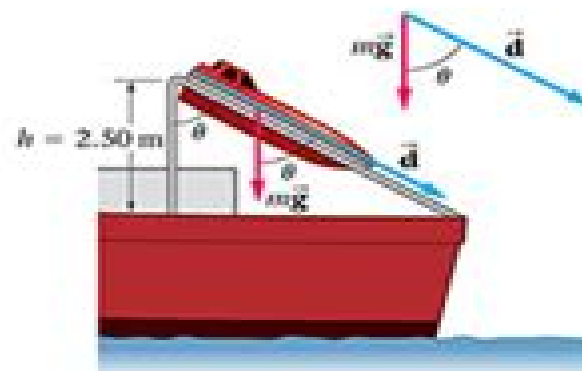
From our sketch, we see that the force of gravity $m\vec{g}$ and the displacement \vec{d} are at an angle θ relative to one another when placed tail-to-tail, and that θ is also the angle the ramp makes with the vertical. In addition, we note that the vertical height of the ramp is $h = 2.50$ m and the length of the ramp is $d = 5.00$ m.

REASONING AND STRATEGY

By definition, the work done on the lifeboat by gravity is $W = Fd \cos \theta$, where $F = mg$, $d = 5.00$ m, and θ is the angle between $m\vec{g}$ and \vec{d} . We are not given θ in the problem statement, but from the right triangle that forms the ramp we see that $\cos \theta = h/d$. Once θ is determined from the geometry of our sketch, it is straightforward to calculate W .

Known Mass of lifeboat, $m = 4970$ kg; sliding distance, $d = 5.00$ m; vertical height, $h = 2.50$ m.

Unknown Work done by gravity, $W = ?$



SOLUTION

1. First, find the component of $\vec{F} = m\vec{g}$ in the direction of motion:

$$\begin{aligned} F \cos \theta &= (mg) \left(\frac{h}{d} \right) \\ &= (4970 \text{ kg})(9.81 \text{ m/s}^2) \left(\frac{2.50 \text{ m}}{5.00 \text{ m}} \right) = 24,400 \text{ N} \end{aligned}$$

2. Multiply by distance to find the work:

$$W = (F \cos \theta)d = (24,400 \text{ N})(5.00 \text{ m}) = 122,000 \text{ J}$$

3. Alternatively, cancel d algebraically before substituting numerical values:

$$\begin{aligned} W &= Fd \cos \theta = (mg)(d) \left(\frac{h}{d} \right) \\ &= mgh = (4970 \text{ kg})(9.81 \text{ m/s}^2)(2.50 \text{ m}) = 122,000 \text{ J} \end{aligned}$$

INSIGHT

The work is simply $W = mgh$, exactly the same as if the lifeboat had fallen straight down through the height h .

Working the problem symbolically, as in Step 3, results in two distinct advantages. First, it makes for a simpler expression for the work. Second, and more important, it shows that the distance d cancels; hence the work depends on the height h but not on the distance. Such a result is not apparent when we work solely with numbers, as in Steps 1 and 2.

PRACTICE PROBLEM

Suppose the lifeboat slides halfway to the water, gets stuck for a moment, and then starts up again and continues to the end of the ramp. What is the work done by gravity in this case? [Answer: The work done by gravity is exactly the same, $W = mgh$, independent of how the boat moves down the ramp.]

Some related homework problems: Problem 10, Problem 11

Walker Physics Chapter 13 Solutions

David Halliday, Robert Resnick, Jearl Walker



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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. [Complete Solutions Manual to Accompany Fundamentals of Physics, Fifth Edition \[by\] David Halliday, Robert Resnick, Jearl Walker: Chapters 1-21](#) Jerry J. Shi, 1997. *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.

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Computational Physics Jos Thijssen, 2007-03-22 First published in 2007 this second edition is for graduate students and researchers in theoretical computational and experimental physics

Some Musings on Theta, Eta, and Zeta Floyd L. Williams, 2023-11-02 This book continues the applications of mathematics more specifically of theta eta and zeta functions and modular forms to various areas of theoretical physics It is a follow up and extension in some sense of the author s earlier book entitled A window into zeta and modular physics Some of the main topics are

- 1 A new approach to logarithmic corrections to black hole entropy
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- 3 Generalization of work of physicists on certain asymptotic problems relating to string theory for example by way of the general theory of modular forms of non positive weight
- 4 A construction of the E8 root lattice its theta function and its relevance for heterotic string theory
- 5 Applications of elliptic functions to KdV nonlinear Schr dinger and Duffing equations for example including a discussion of Lax pairs and the Miura transformation
- 6 Finite temperature zeta functions and partition functions for quantum fields in thermal equilibrium on various curved background spacetimes
- 7 Exact solutions of the Einstein gravitational field equations for Lemaitre and inhomogeneous cosmological models with a special focus on the Szekeres Szafron exact solutions by way of the Weierstrass elliptic function
- 8 Elementary particles and my zeta function formula for higher spin fermionic particles this covers in particular the gravitino particle of spin $3/2$ and bosons with integral spin $s = 2, 3, 4, 5$

These are some sample topics Others include the continuous Heisenberg model reaction diffusion systems Dirichlet and Hecke L functions the modular j invariant the computation of the one loop effective potential for non compact symmetric spaces the BTZ black hole Jacobi inversion formulas etc Thus there is a very large range of material with the first 9 chapters of preliminary expository background for mathematicians and physicists

Dimensions ,1972 **Technical News Bulletin of the Bureau of Standards** United States. National Bureau of

Standards,1972 *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

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

Einstein's Pathway to the Special Theory of Relativity Galina Weinstein,2015-06-18 This book pieces together the jigsaw puzzle of Einstein s journey to discovering the special theory of relativity Between 1902 and 1905 Einstein sat in the Patent Office and may have made calculations on old pieces of paper that were once patent drafts One can imagine Einstein trying to hide from his boss writing notes on small sheets of paper and according to reports seeing to it that the small sheets of paper on which he was writing would vanish into his desk drawer as soon as he heard

footsteps approaching his door He probably discarded many pieces of papers and calculations and flung them in the waste paper basket in the Patent Office The end result was that Einstein published nothing regarding the special theory of relativity prior to 1905 For many years before 1905 he had been intensely concerned with the topic in fact he was busily working on the problem for seven or eight years prior to 1905 Unfortunately there are no surviving notebooks and manuscripts no notes and papers or other primary sources from this critical period to provide any information about the crucial steps that led Einstein to his great discovery In May 1905 Henri Poincar sent three letters to Hendrik Lorentz at the same time that Einstein wrote his famous May 1905 letter to Conrad Habicht promising him four works of which the fourth one Relativity was a rough draft at that point In the May 1905 letters to Lorentz Poincar presented the basic equations of his 1905 Dynamics of the Electron meaning that at this point Poincar and Einstein both had drafts of papers relating to the principle of relativity The book discusses Einstein's and Poincar's creativity and the process by which their ideas developed The book also explores the misunderstandings and paradoxes apparent in the theory of relativity and unravels the subtleties and creativity of Einstein

Dissertation Abstracts International, 1992 **Organized Solutions** Stig Friberg, 1992-07-21 Written by top international experts in colloid and surface chemistry Contains close to 750 literature references and nearly 400 useful figures equations and tables

General Relativity M. P. Hobson, G. P. Efstathiou, A. N. Lasenby, 2006-02-02 General Relativity An Introduction for Physicists provides a clear mathematical introduction to Einstein's theory of general relativity It presents a wide range of applications of the theory concentrating on its physical consequences After reviewing the basic concepts the authors present a clear and intuitive discussion of the mathematical background including the necessary tools of tensor calculus and differential geometry These tools are then used to develop the topic of special relativity and to discuss electromagnetism in Minkowski spacetime Gravitation as spacetime curvature is then introduced and the field equations of general relativity derived After applying the theory to a wide range of physical situations the book concludes with a brief discussion of classical field theory and the derivation of general relativity from a variational principle Written for advanced undergraduate and graduate students this approachable textbook contains over 300 exercises to illuminate and extend the discussion in the text

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differential geometry *The Chemical Engineer*, 1975 *Digest* IEEE Antennas and Propagation Society. International Symposium, 2001 **Handbook of Clean Energy Systems, 6 Volume Set** Jinyue Yan, 2015-06-22

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