

1. What is the distance between a 128 kg object and a 136 kg object if the gravitational force of attraction between them is 6.582×10^{-10} N?

$$6.582 \times 10^{-10} = \frac{G(128)(136)}{r^2}$$

$$r^2 = \frac{G(128)(136)}{6.582 \times 10^{-10}}$$

$$r^2 = 1764.07$$

$$r = 42 \text{ m}$$

2. The force of gravity between two objects is 1200 N when the objects are 60 m apart. Find the force of gravity between the objects when they are 480 m apart.

Inverse square law:

Objects further apart, $F_g \downarrow$

$480 \div 60 = 8 \times$ further apart, so F_g is $8^2 = 64 \times$ smaller
 $1200 \div 64 = 18.8 \text{ N}$

3. Two students are on a skateboards and push away from each other. A 48 kg student accelerates away at 2.6 m/s^2 . Find the acceleration of the other student if their mass is 32 kg. Action-reaction forces

$$F_{net} = ma$$

$$F_{net} = 48(2.6)$$

$$F_{net} = 124.8 \text{ N}$$

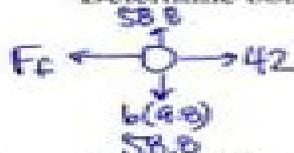
F_{net} is the same for both students

$$F_{net} = ma$$

$$124.8 = 32a$$

$$a = 3.9 \text{ m/s}^2$$

4. A 42.0 N force is applied to a 6.00 kg block but it only accelerates at 5.50 m/s^2 . Determine both the force and the coefficient of friction.



$$F_{net} = ma$$

$$42 - F_f = 6(5.5)$$

$$42 - F_f = 33$$

$$F_f = 9.0 \text{ N}$$

$$F_f = \mu F_N$$

$$9.0 = \mu(58.8)$$

$$\mu = 0.153$$

5. A go-cart, traveling at 65 km/h , skids to a stop. If the coefficient of friction between the tires and the asphalt is 0.59, how far does the go-cart skid?



no forwards force!

$$F_{net} = ma$$

$$F_f = ma$$

$$\mu F_N = ma$$

$$\mu mg = ma$$

$$\mu g = a$$

$$0.59(9.8) = a$$

$$a = 5.782$$

$$v_i = 18.06$$

$$v_f = 0$$

$$d = ?$$

$$a = -5.782$$

$$t = x$$

$$v_f^2 - v_i^2 = 2ad$$

$$d = 28.2 \text{ m}$$

Holt Physics Answers Chapter 7

R Bogdan



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Holt Physics Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 1998-03 *Physics* Holt Rinehart & Winston, Holt, Rinehart and Winston Staff, 2006 **Books in Print Supplement**, 2002 *Holt Science and Technology* Holt, Rinehart and Winston Staff, 2001 **Forthcoming Books** Rose Army, 2003-04 [Patterns in Physics](#) William Bolton, 1974 **Thermoelectrics** HoSung Lee, 2025-06-30 Complete introduction to the field of thermoelectrics covering materials applications recent developments and more with end of chapter problems included throughout Thermoelectrics provides an introduction to the fundamental theories in the fast developing and interdisciplinary field of thermoelectrics The topics covered are in sync with contemporary technology advancement happenings within the TEC TEG electronics cooling community and include discussion of challenges and concerns surrounding practical applications The first section covers thermoelectric generators and coolers refrigerators before examining optimal design with dimensional analysis A number of applications are considered including solar thermoelectric generators thermoelectric air conditioners and refrigerators thermoelectric coolers for electronic devices thermoelectric compact heat exchangers and biomedical thermoelectric energy harvesting systems The second section focuses on materials and covers the physics of electrons and phonons theoretical modeling of thermoelectric transport properties thermoelectric materials and nanostructures In this Second Edition many new examples and end of chapter problems have been added New results from the theories have been added in certain chapters along with new design charts and many examples showing how to use the charts A companion website hosts solution manuals and appendices Sample topics covered in Thermoelectrics include Thermoelectric effects including the Seebeck Peltier and Thomson effects as well as Thomson Kelvin relationships Performance maximum abnormal parameters for thermoelectric modules as well as effective material properties Thermal and electrical contact resistances for micro and macro devices with information on modeling and validation Thermoelectric transport properties covering Seebeck coefficient electrical conductivity lattice and electronic thermal conductivities Low dimensional nanostructures covering quantum wells wires and dots and supporting proof of principle studies Thermoelectrics is an ideal resource on the fundamentals of the subject for professionals in the electronics cooling industry solid state physicists and materials scientists and engineers It is also a valuable reference for early career scientists and undergraduate and graduate students in related programs of study

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