

Giancoli 6th Edition Problem Solutions Chapter #6

■ Problem #3

QUESTION: A 1300 N crate rests on the floor. How much work is required to move it at constant speed

(a) 4.0 m along the floor against a friction force of 230 N, and (b) 4.0 m vertically?

ANSWER: (a) The work against friction is $\text{Work} = 230 \text{ N} \times 4.0 \text{ m} = 920 \text{ Joules}$.

$$230 \times 4.0$$

$$920.$$

(b) The work against gravity is $W = mgh = \frac{1300 \text{ N}}{9.8 \text{ m/sec}^2} \times 9.8 \text{ m/sec}^2 \times 4.0 \text{ m} = 5,200 \text{ Joules}$.

$$1300. \times 4.0$$

$$5200.$$

■ Problem #5

QUESTION: A box of mass 5.0 kg is accelerated from rest across a floor at a rate of 2.0 m/sec^2 for 7.0 sec. Find the net work done on the box.

ANSWER: Recall the definition of acceleration $a = (V_f - V_0) / t$ can be rewritten as $V_f = V_0 + a t$. We know $V_0 = 0$

since the box started at rest and the acceleration is $a = 2.0 \text{ m/s}^2$ for a time $t = 7.0 \text{ sec}$. So we obtain $V_f = 14 \text{ m/s}$.

$$V_0 = 0.;$$

$$a = 2.;0;$$

$$t = 7.;0;$$

$$V_f = V_0 + a \times t$$

$$14.$$

The change in kinetic energy is by definition $\Delta KE = KE_f - KE_0$ where $KE_0 = \frac{1}{2} m V_0^2 = 0$ since $V_0 = 0 \text{ m/sec}$. The

initial $KE_0 = \frac{1}{2} m V_0^2 = 0 \text{ Joules}$ and the final $KE_f = \frac{1}{2} m V_f^2 = 490 \text{ Joules}$ so $\Delta KE = KE_f - KE_0 = (490 \text{ J} - 0 \text{ J}) = 490$

J. The work-kinetic energy theorem says $W = \Delta KE = 490 \text{ Joules}$ in this case.

$$m = 5.;0;$$

$$V_0 = 0.;$$

$$KE_0 = (.5 / 2) \times m \times (V_0)^2$$

$$0.$$

$$V_f = 14.;0;$$

$$KE_f = (.5 / 2) \times m \times (V_f)^2$$

$$490.$$

$$W = KE_f - KE_0$$

$$490.$$

■ Problem #12

The force on an object acting along the x axis varies as shown in Fig 6-37. Determine the work done by this force to move the object (a) from $x=0$ to $x=10 \text{ m}$ and (b) from $x=0$ to $x=15 \text{ m}$.

Physics Giancoli 6th Edition Solutions Chapter 6

Douglas C. Giancoli



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Solutions Manual for Giancoli Physics, Principles with Applications Keith H. Brown, 1980

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Announcer American Association of Physics Teachers, 2003

[Subject Guide to Books in Print](#), 1975

Books in Print Supplement, 1994

AAAS Science Book List, 1978-1986 Kathryn Wolff, Susan M. O'Connell, Valerie J. Montenegro, 1986 A selected and annotated list of science and mathematics books which supplements the AAAS science book list 3rd ed 1970 and the AAAS science book list supplement 1978

The Publishers' Trade List Annual, 1981

[Forthcoming Books](#) Rose Arny, 1989

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[American Book Publishing Record](#), 1987

[Physics](#) Douglas C. Giancoli, Irvin A. Miller, 1998 2000 2005

State Textbook Adoption Rowan Salisbury

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