

Practice Problems

3.1 Acceleration

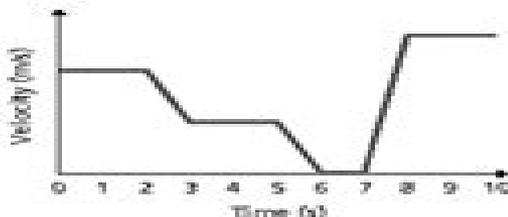
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1. A dog runs into a room and sees a cat at the other end of the room. The dog instantly stops running but slides along the wood floor until he stops, by slowing down with a constant acceleration. Sketch a motion diagram for this situation, and use the velocity vectors to find the acceleration vector.



2. Figure 3-5 is a $v-t$ graph for Steven as he walks along the midway at the state fair. Sketch the corresponding motion diagram, complete with velocity vectors.



■ Figure 3-5



3. Refer to the $v-t$ graph of the toy train in Figure 3-6 to answer the following questions.



■ Figure 3-6

- a. When is the train's speed constant?
5.0 to 15.0 s
- b. During which time interval is the train's acceleration positive?
0.0 to 5.0 s
- c. When is the train's acceleration most negative?
15.0 to 20.0 s
4. Refer to Figure 3-6 to find the average acceleration of the train during the following time intervals.

- a. 0.0 s to 5.0 s

$$\begin{aligned} \bar{a} &= \frac{v_2 - v_1}{t_2 - t_1} \\ &= \frac{10.0 \text{ m/s} - 0.0 \text{ m/s}}{5.0 \text{ s} - 0.0 \text{ s}} \\ &= 2.0 \text{ m/s}^2 \end{aligned}$$

- b. 15.0 s to 20.0 s

$$\begin{aligned} \bar{a} &= \frac{v_2 - v_1}{t_2 - t_1} \\ &= \frac{4.0 \text{ m/s} - 10.0 \text{ m/s}}{20.0 \text{ s} - 15.0 \text{ s}} \\ &= -1.2 \text{ m/s}^2 \end{aligned}$$

- c. 0.0 s to 40.0 s

$$\bar{a} = \frac{v_2 - v_1}{t_2 - t_1}$$

Physics Principles And Problems Answers Chapter 3

**James A. Tindall, James R. Kunkel, Dean
E. Anderson**



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Biology John Moore,2004-08 Teacher Manual for Biology A Search for Order in Complexity **The Science Teacher** ,1987 An Introduction to Physical Science James T. Shipman,Jerry L. Adams,Jerry D. Wilson,1979 *Proceedings Society for the Promotion of Engineering Education (U.S.)*,1930 *Student Handbook for David Krech and Richard S. Crutchfield Elements of Psychology* James L. McGaugh,1958 Athenaeum and Literary Chronicle ,1871 **Problem Solving** John Thomas Sears,Donald R. Woods,Richard D. Noble,1983 Radio World Roland Burke Hennessy,1930 **Optical Engineering** ,1994 Publishes papers reporting on research and development in optical science and engineering and the practical applications of known optical science engineering and technology

Unsaturated Zone Hydrology for Scientists and Engineers James A. Tindall,James R. Kunkel,Dean E. Anderson,1999 Introduction and brief history Physical properties and characteristics of soils Behavior of clay water systems Potential and thermodynamics of soil water Chemical properties and principles of soil water Principles of water flow in soil Saturated water flow in soil Unsaturated water flow in soil Transport of heat and gas in soil and at the surface Contaminant transport Effects of infiltration and drainage on soil water redistribution Applied soil physics modeling water solute and vapor movement Drainage in soil water and ground water Soil remediation techniques Spatial variability scaling and fractals Appendix 1 Site characterization and monitoring devices Appendix 2 Mathematics review Appendix 3 tables References Index

Mathematical Reviews ,2003 Fundamentals of Soil Behavior

James K. Mitchell, 1993 Explains the factors which determine and control the engineering properties of soils particularly volume change deformation strength and permeability New to this edition expanded coverage of residual and tropical soils environmental aspects of soil behavior material on partly saturated soils revised treatment of direct or coupled hydraulic chemical thermal and electrical flows through soil

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