

FIGURE 2.2  
Illustrative Problems 2.1 and 2.2. (a) Spring-force system. (b) Spring-force work.

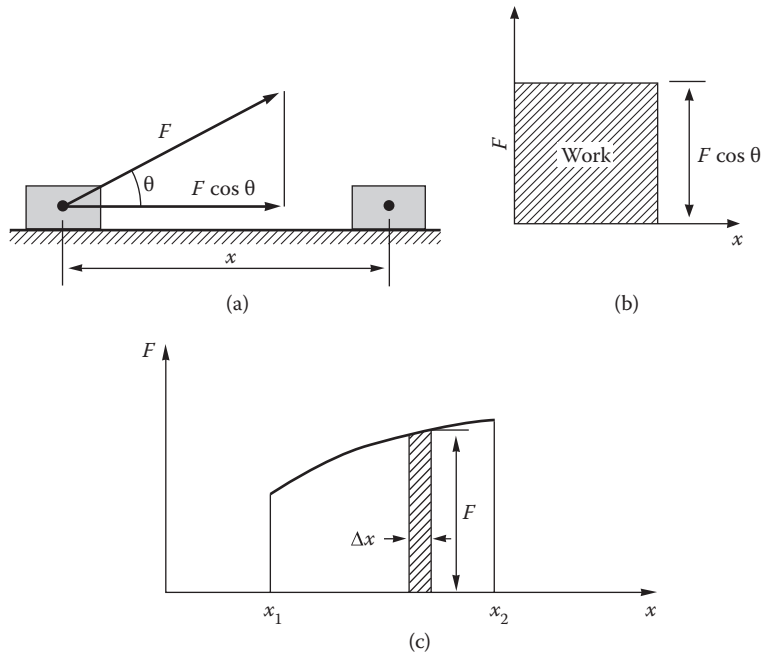


FIGURE 2.1

Work. (a) Force component in  $x$  direction. (b) Plot of force vs. displacement. (c) Force as a function of displacement.

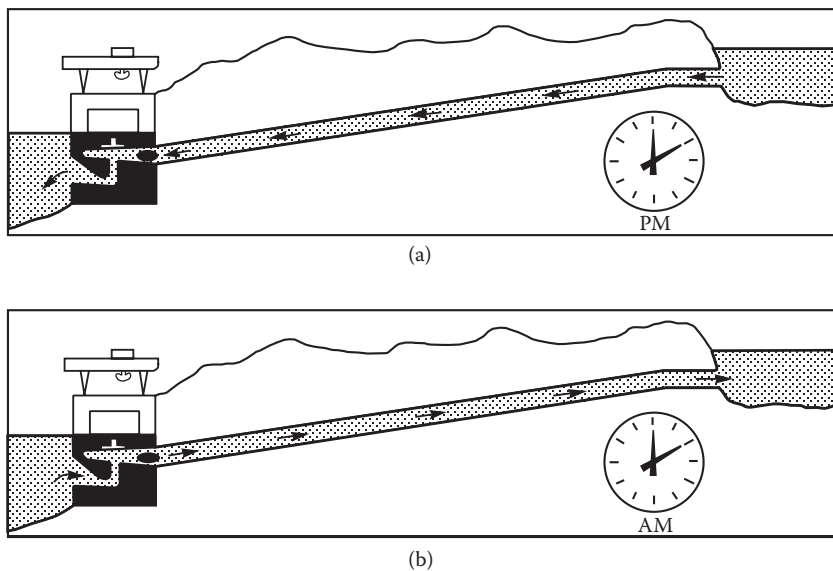


FIGURE 2.4  
Pumped storage concept. (a) Generating mode. (b) Pumping mode.

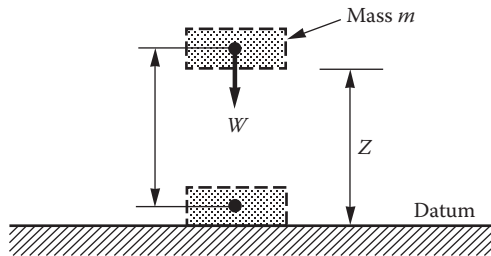


FIGURE 2.3  
Potential energy.

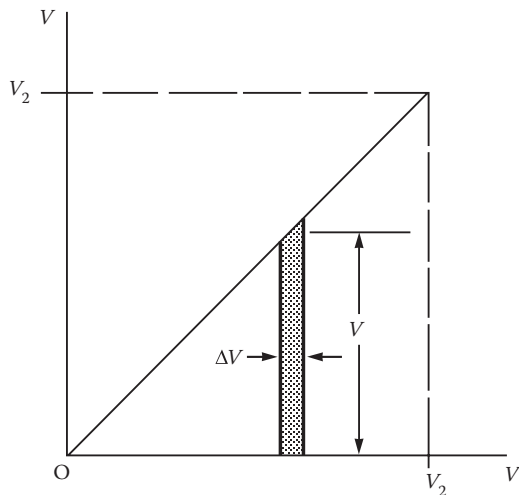


FIGURE 2.6  
Evaluation of  $\int V dV$ .

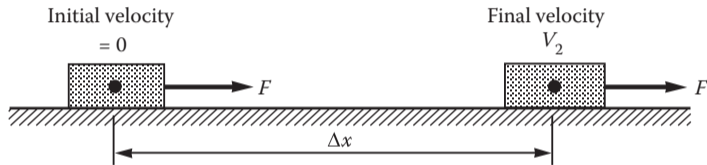


FIGURE 2.5  
Kinetic energy.

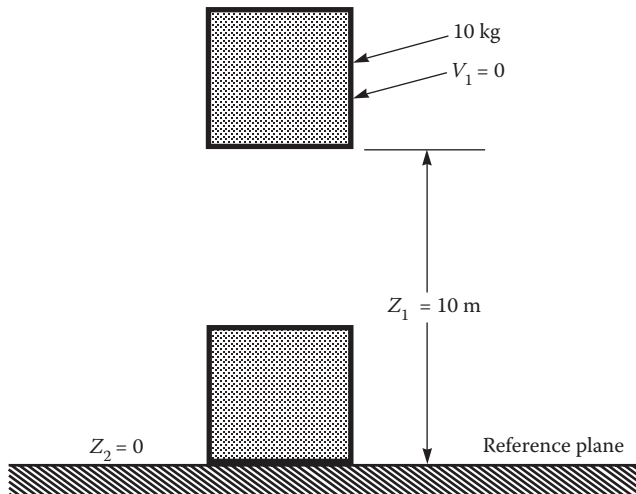


FIGURE 2.8  
Illustrative Problem 2.10.

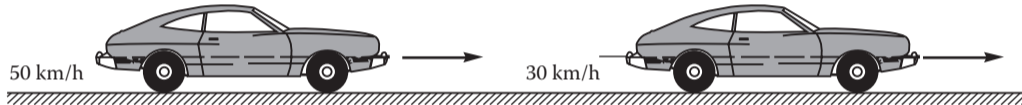


FIGURE 2.7  
Illustrative Problem 2.9.

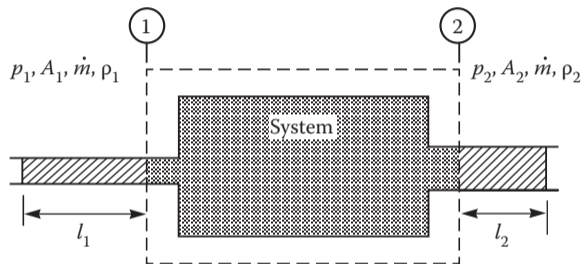


FIGURE 2.9  
Steady-flow system: flow work.

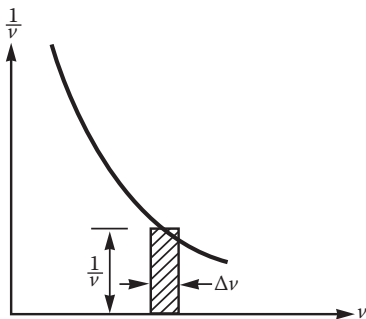


FIGURE 2.12  
Evaluation of  $\sum(\Delta v/v)$ .

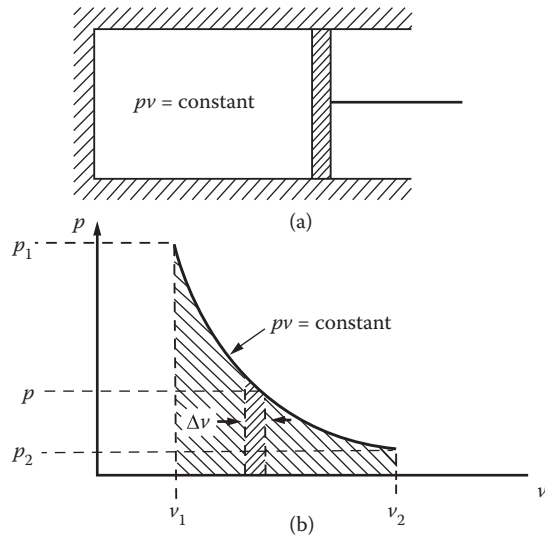


FIGURE 2.11  
Illustrative Problem 2.13. (a) Piston-cylinder system. (b) Summation of work.

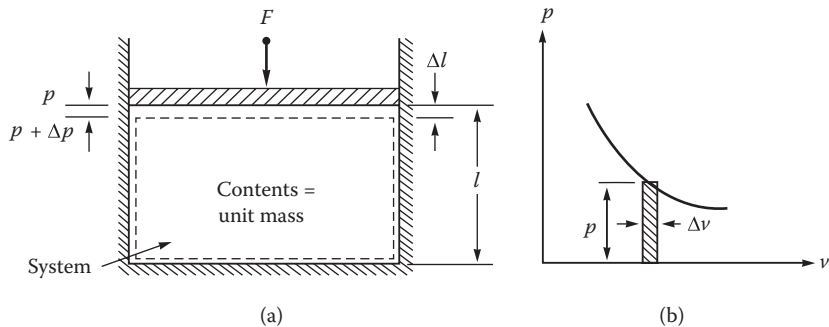


FIGURE 2.10  
Quasi-static nonflow compression process. (a) Piston-cylinder system. (b) Differential work.