

2-9E The total potential energy of an object is to be determined.

Analysis Substituting the given data into the potential energy expression gives

$$PE = mgz = (200 \text{ lbm})(32.2 \text{ ft/s}^2)(10 \text{ ft}) \left(\frac{1 \text{ Btu/lbm}}{25,037 \text{ ft}^2/\text{s}^2} \right) = \mathbf{2.57 \text{ Btu}}$$

2-10 A person with his suitcase goes up to the 10th floor in an elevator. The part of the energy of the elevator stored in the suitcase is to be determined.

Assumptions 1 The vibrational effects in the elevator are negligible.

Analysis The energy stored in the suitcase is stored in the form of potential energy, which is mgz . Therefore,

$$\Delta E_{\text{suitcase}} = \Delta PE = mg\Delta z = (30 \text{ kg})(9.81 \text{ m/s}^2)(35 \text{ m}) \left(\frac{1 \text{ kJ/kg}}{1000 \text{ m}^2/\text{s}^2} \right) = \mathbf{10.3 \text{ kJ}}$$

Therefore, the suitcase on 10th floor has 10.3 kJ more energy compared to an identical suitcase on the lobby level.

Discussion Noting that 1 kWh = 3600 kJ, the energy transferred to the suitcase is $10.3/3600 = 0.0029 \text{ kWh}$, which is very small.

2-11 A hydraulic turbine-generator is to generate electricity from the water of a large reservoir. The power generation potential is to be determined.

Assumptions 1 The elevation of the reservoir remains constant.

2 The mechanical energy of water at the turbine exit is negligible.

Analysis The total mechanical energy water in a reservoir possesses is equivalent to the potential energy of water at the free surface, and it can be converted to work entirely. Therefore, the power potential of water is its potential energy, which is gz per unit mass, and $\dot{m}gz$ for a given mass flow rate.

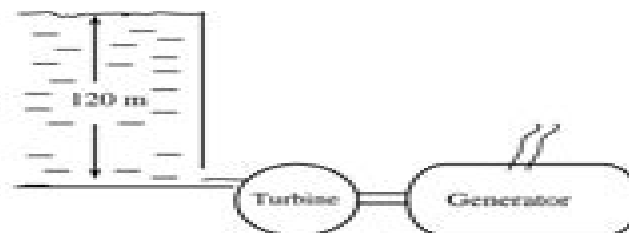
$$e_{\text{mech}} = pe = gz = (9.81 \text{ m/s}^2)(120 \text{ m}) \left(\frac{1 \text{ kJ/kg}}{1000 \text{ m}^2/\text{s}^2} \right) = 1.177 \text{ kJ/kg}$$

Then the power generation potential becomes

$$\dot{W}_{\text{max}} = \dot{E}_{\text{mech}} = \dot{m}e_{\text{mech}} = (2400 \text{ kg/s})(1.177 \text{ kJ/kg}) \left(\frac{1 \text{ kW}}{1 \text{ kJ/s}} \right) = \mathbf{2825 \text{ kW}}$$

Therefore, the reservoir has the potential to generate 2825 kW of power.

Discussion This problem can also be solved by considering a point at the turbine inlet, and using flow energy instead of potential energy. It would give the same result since the flow energy at the turbine inlet is equal to the potential energy at the free surface of the reservoir.



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Jack Philip Holman



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