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If the total car and driver mass is 1075 kg. Find the necessary force. Solution: Acceleration is the time rate of change of velocity. $ma = ? F$; $a = dV / dt = (60 \times 1000) / (3600 \times 5) = 3.33 \text{ m/s}^2$
 $F_{net} = ma = 1075 \times 3.333 = 3583 \text{ N}$ 2.4 A washing machine has 2 kg of clothes spinning at a rate that generates an acceleration of 24 m/s².
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Solution: We see hot high pressure steam flowing in at state 1 from the steam drum through a flow control (not shown). The steam leaves at a lower pressure to the condenser (heat exchanger) at state 2. A rotating shaft gives a rate of energy (power) to the electric generator set.
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In Chapter 2, tables of thermodynamic properties are introduced, but only in regard to these measurable properties. Internal energy and enthalpy are introduced in connection with the energy equation and the first law, entropy with the second law, and the Helmholtz and Gibbs functions in the chapter on thermodynamic relations.

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Solution: The pump exit pressure must balance the top pressure plus the column ρP . The pump inlet pressure provides part of the absolute pressure. Pafter pump = Ptop + ρP 1 lbf s2 $\rho P = \rho gh = 62.2 \text{ lbf/ft}^3 \times 32.174 \text{ ft/s}^2 \times (450 + 16) \text{ ft} \times 32.174 \text{ lbf ft E}$

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Solution: $m = \rho V = 110 \text{ kg/m}^3 \times 100\,000 \text{ m}^3 = 11 \times 10^6 \text{ kg}$ Just to put this in perspective a power plant that generates 2000 MW by burning coal would make about 20 million tons of carbon-dioxide a year. That is 2000 times the above mass so it is nearly impossible to store all the carbon-dioxide being produced.

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