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## Fundamentals of Thermodynamics Claus Borgnakke; Richard E ...

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/s<sup>2</sup>.

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Solution: The pump exit pressure must balance the top pressure plus the column  $P$ . The pump inlet pressure provides part of the absolute pressure. Pafter pump =  $P_{top} + P_1 \text{ lbf/s}^2$   $P = \rho gh = 62.2 \text{ lbf/ft}^3 \times 32.174 \text{ ft/s}^2 \times (450 + 16) \text{ ft} \times 32.174 \text{ lbf ft E}$

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Solution: 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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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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