Thermodynamic Properties

 If an object has a weight of 10 lbf on the moon, what would the same object weigh on Jupiter?

$$g_{\text{Jupine}} = 75 \frac{\text{ft}}{\text{sec}^2}$$
 $g_{\text{Moon}} = 5.4 \frac{\text{ft}}{\text{sec}^2}$ $g_c = 32 \frac{\text{lbm-ft}}{\text{lbf-sec}^2}$
 $|\overline{W}| = \frac{\text{mg}}{\text{g}_c} \Rightarrow \text{m} = \frac{|\overline{W}|_{\text{mean}} g_c}{g_{\text{mass}}} = \frac{10 \times 32}{5.4} = 59.26 \text{ lbm}$

$$|W|_{Jupter} = \frac{mg_{Jupter}}{g_c} = \frac{59.26 \times 75}{32} = [139 \text{ lbf}]$$

An object that weighs 50 lbf on earth is moved to Saturn where its new weight is 105 lbf. What is the acceleration due to gravity on Saturn?

$$g_{\text{Earth}} = 32 \frac{\text{ft}}{\text{sec}^2}$$
 $g_c = 32 \frac{\text{lbm-ft}}{\text{lbf-sec}^2}$

50 lbf on earth ⇒ 50 lbm

$$\left|\overline{W}\right| = \frac{mg}{g_c} \Rightarrow g = \frac{\left|\overline{W}\right|g_c}{m} = \frac{105 \times 32}{50} = \boxed{67.2 \frac{ft}{\sec^2}}$$

 Define, using equations, specific volume (ν) and density (ρ). What is the mathematical relationship between these two terms?

$$v = \frac{V}{m}$$
, $\rho = \frac{m}{V}$, $v = \frac{1}{\rho}$ or $\rho = \frac{1}{V}$

Temperature and Pressure Measurements

- (a) Define temperature.
 - (b) What is the absolute temperature scale corresponding to Fahrenheit?
 - (c) Convert 100° F to that absolute scale.
 - (a) Temperature: a measure of molecular activity of a substance.
 - (b) Rankine
 - (c) °R = °F + 460 ⇒ 100° F converts to 560° R

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Maka Aleksishvili, Shota Sidamonidze

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web if there are tumours in both sides of the liver surgery may be conducted over two stages to allow the liver to regrow following the first operation for some people it is not possible to remove part of the liver and they may be considered for a transplant

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place in the body it s also called secondary liver cancer

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