

1.10 Assume the following:  $\rho := 13.5 \frac{\text{gm}}{\text{cm}^3}$   $g := 9.8 \frac{\text{m}}{\text{s}^2}$

$P := 400 \text{ bar}$   $h := \frac{P}{\rho \cdot g}$   $h = 302.3 \text{ m}$  Ans.

1.11 The force on a spring is described by:  $F = K_s \cdot x$  where  $K_s$  is the spring constant. First calculate  $K$  based on the earth measurement then  $g_{\text{Mars}}$  based on spring measurement on Mars.  
On Earth:

$F = \text{mass} \cdot g = K \cdot x$   $\text{mass} := 0.40 \text{ kg}$   $g := 9.81 \frac{\text{m}}{\text{s}^2}$   $x := 1.08 \text{ cm}$

$F := \text{mass} \cdot g$   $F = 3.924 \text{ N}$   $K_s := \frac{F}{x}$   $K_s = 363.333 \frac{\text{N}}{\text{m}}$

On Mars:

$x := 0.40 \text{ cm}$   $F_{\text{Mars}} := K \cdot x$   $F_{\text{Mars}} = 4 \times 10^{-3} \text{ mK}$

$g_{\text{Mars}} := \frac{F_{\text{Mars}}}{\text{mass}}$   $g_{\text{Mars}} = 0.01 \frac{\text{mK}}{\text{kg}}$  Ans.

1.12 Given:  $\frac{d}{dz} P = -\rho \cdot g$  and:  $\rho = \frac{M \cdot P}{R \cdot T}$  Substituting:  $\frac{d}{dz} P = -\frac{M \cdot P}{R \cdot T} \cdot g$

Separating variables and integrating:  $\int_{P_{\text{sea}}}^{P_{\text{Denver}}} \frac{1}{P} dP = \int_0^{z_{\text{Denver}}} -\left(\frac{M \cdot g}{R \cdot T}\right) dz$

After integrating:  $\ln\left(\frac{P_{\text{Denver}}}{P_{\text{sea}}}\right) = \frac{-M \cdot g}{R \cdot T} \cdot z_{\text{Denver}}$

Taking the exponential of both sides and rearranging:  $P_{\text{Denver}} = P_{\text{sea}} \cdot e^{\left(\frac{-M \cdot g}{R \cdot T} \cdot z_{\text{Denver}}\right)}$

$P_{\text{sea}} := 1 \text{ atm}$   $M := 29 \frac{\text{gm}}{\text{mol}}$   $g := 9.8 \frac{\text{m}}{\text{s}^2}$

# Solution Manual Smith Van Ness

**Wenbin Ji**



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