

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_{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: $P_{\text{Denver}} = P_{\text{sea}} \cdot e^{\left(\frac{-M \cdot g}{R \cdot T} \cdot z_{\text{Denver}}\right)}$

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

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