

#Jenny



Finally I get this ebook, thanks for all these I can get now!

#Rio



Cool! I'am really happy

#Markus Jensen



I did not think that this would work, my best friend showed me this website, and it does! I get my most wanted eBook

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#Che Salsa



My friends are so mad that they do not know how I have all the high quality ebook which they do not!

#Diego Butler



so many fake sites. this is the first one which worked! Many thanks

Chapter 1 - Section A - Mathcad Solutions

1.4 The equation that relates deg F to deg C is $F = 1.8(C) + 32$. Solve this equation by setting $F = 98.6$.

Given $F = 98.6 + 32$ Find $C = -40$ Ans.

1.5 By definition: $P = \frac{F}{A}$ $F = \text{mass} \cdot g$ Note: Pressures are in gauge pressure.
 $P = 3000 \text{ Pa}$ $D = 4 \text{ mm}$ $\Delta h = \frac{P}{\rho \cdot g}$ $A = 12.566 \text{ mm}^2$
 $F = P \cdot A$ $g = 9.807 \frac{\text{m}}{\text{s}^2}$ $\text{mass} = \frac{F}{g}$ $\text{mass} = 384.4 \text{ g}$ Ans.

1.6 By definition: $P = \frac{F}{A}$ $F = \text{mass} \cdot g$
 $P = 3000 \text{ Pa}$ $D = 0.175 \text{ m}$ $A = \frac{\pi}{4} D^2$ $A = 0.0238 \text{ m}^2$
 $F = P \cdot A$ $g = 32.174 \frac{\text{ft}}{\text{sec}^2}$ $\text{mass} = \frac{F}{g}$ $\text{mass} = 1069.7 \text{ lb}$ Ans.

1.7 $P_{\text{abs}} = \rho \cdot g \cdot h + P_{\text{atm}}$
 $\rho = 11.555 \frac{\text{lbm}}{\text{ft}^3}$ $g = 9.832 \frac{\text{m}}{\text{s}^2}$ $h = 56.38 \text{ m}$
 $P_{\text{atm}} = 101.798 \text{ Pa}$ $P_{\text{abs}} = \rho \cdot g \cdot h + P_{\text{atm}}$ $P_{\text{abs}} = 176.809 \text{ Pa}$ Ans.

1.8 $\rho = 11.555 \frac{\text{lbm}}{\text{ft}^3}$ $g = 32.243 \frac{\text{ft}}{\text{s}^2}$ $h = 25.62 \text{ ft}$
 $P_{\text{atm}} = 29.36 \text{ psi}$ $P_{\text{abs}} = \rho \cdot g \cdot h + P_{\text{atm}}$ $P_{\text{abs}} = 27.22 \text{ psi}$ Ans.

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