

Download File PDF Transport Processes And Separation Process Principles Solution Manual Geankoplis

#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

#Hun Tsu



wtf this great ebook for free?!

#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

PART I - TRANSPORT PROCESSES: MOMENTUM, HEAT, AND MASS

Q.2-1)
Eq. (1.3-4) $K = 258.2 = {}^{\circ}\text{C} + 273.15$ ${}^{\circ}\text{C} = 9.000 = [{}^{\circ}\text{C}]$
Eq. (1.3-2) ${}^{\circ}\text{C} = 9.000 = (1.8)({}^{\circ}\text{F} - 32)$ ${}^{\circ}\text{F} = [176.4]$
Eq. (1.3-3) ${}^{\circ}\text{R} = {}^{\circ}\text{F} + 460 = 176.4 + 460$ ${}^{\circ}\text{R} = [636.4]$

(1.2-2)
Eq. (1.3-2) ${}^{\circ}\text{C} = (1/1.8)({}^{\circ}\text{F} - 32) = (1/1.8)(185 - 32) = [68.33^{\circ}\text{C}]$
Eq. (1.3-4) $K = {}^{\circ}\text{C} + 273.15 = 68.33 + 273.15 = [341.5\text{ K}]$
Eq. (1.3-3) ${}^{\circ}\text{R} = {}^{\circ}\text{F} + 460 = 158 + 460 = [618^{\circ}\text{R}]$

(1.3-1) $MW(\text{O}_2) = 32.00$ $MW(\text{N}_2) = 28.02$
 $MW(\text{air}) = 0.21(32.00) + 0.79(28.02) = [28.9\text{ kg/kg mol}]$

(1.3-2)
 $2\text{CO} + \text{O}_2 \rightarrow 2\text{CO}_2$ $MW(\text{CO}) = 28.01$ $MW(\text{O}_2) = 32.00$ $MW(\text{CO}_2) = 44.01$
 $MW(\text{air}) = 1.00$ $100(32.00) = 32.0\text{ kg O}_2$ $200(44.0) = 88.0\text{ kg CO}_2$

(1.3-3)

Gas	g	MW	g/mol	Mol frac
N ₂	20	28.02	0.7128	0.1642 mol frac
O ₂	80	32.00	2.5128	0.2990
CO ₂	48	44.01	1.0935	0.2363
Total	148		4.3553 mol	1.0000

Average mol wt = $\frac{148\text{ g}}{4.3553\text{ mol}} = [34.2\text{ g/g mol}]$
[34.2 kg/kg mol]

[Download PDF version of :](#)

Transport Processes And Separation Process Principles Solution Manual Geankoplis