

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

(1.2-1)

Eg. (1.3-4)  $K = 353.2 = ^\circ\text{C} + 273.15$        $^\circ\text{C} = 80.05 = \boxed{80^\circ\text{C}}$

Eg. (1.3-2)  $^\circ\text{C} = 80.0 = (1/1.8)(^\circ\text{F} - 32)$        $^\circ\text{F} = \boxed{176^\circ\text{F}}$

Eg. (1.3-3)  $^\circ\text{R} = ^\circ\text{F} + 460 = 176 + 460$        $^\circ\text{R} = \boxed{636^\circ\text{R}}$

(1.2-2)

Eg. (1.3-2)  $^\circ\text{C} = (1/1.8)(^\circ\text{F} - 32) = (1/1.8)(155 - 32) = \boxed{68.33^\circ\text{C}}$

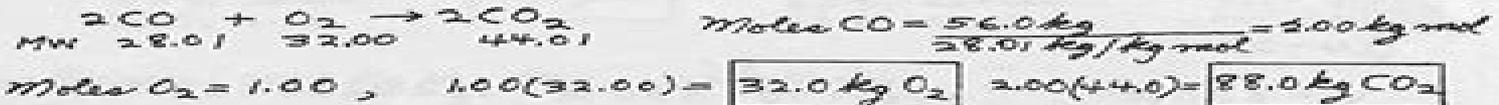
Eg. (1.3-4)  $K = ^\circ\text{C} + 273.15 = 68.33 + 273.15 = \boxed{341.5\text{ K}}$

Eg. (1.3-3)  $^\circ\text{R} = ^\circ\text{F} + 460 = 155 + 460 = \boxed{615^\circ\text{R}}$

(1.3-1)

$MW(\text{O}_2) = 32.00, MW(\text{N}_2) = 28.02$   
 $MW(\text{air}) = 0.21(32.00) + 0.79(28.02) = \boxed{28.9\text{ kg/kg mol}}$

(1.3-2)



(1.3-3)

Gas	g	MW	g mol	Mol free
N <sub>2</sub>	20	28.02	0.7138	$\boxed{\begin{array}{r} 0.1648\text{ mol free} \\ 0.5990 \\ 0.2362 \\ \hline 1.0000 \end{array}}$
O <sub>2</sub>	83	32.00	2.5938	
CO <sub>2</sub>	45	44.01	1.0225	
Total	148 g		4.3301 g mol	

$Average\ mol\ wt = \frac{148\text{ g}}{4.3301\text{ g mol}} = \boxed{\begin{array}{l} 34.2\text{ g/g mol} \\ 34.2\text{ kg/kg mol} \end{array}}$

# Geankoplis 4th Edition Solution Manual

**Hussin A.Rothana**



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