

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

(1.2-1)

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

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

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

(1.2-2)

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

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

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

(1.3-1)

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

(1.3-2)

$$\begin{array}{ccccccc} 2\text{CO} & + & \text{O}_2 & \rightarrow & 2\text{CO}_2 & & \text{Moles CO} = \frac{56.0\text{ kg}}{28.01\text{ kg/kg mol}} = 2.00\text{ kg mol} \\ \text{MW } 28.01 & & 32.00 & & 44.01 & & \end{array}$$

$\text{Moles O}_2 = 1.00, 1.00(32.00) = \boxed{32.0\text{ kg O}_2}$   $2.00(44.0) = \boxed{88.0\text{ kg CO}_2}$

(1.3-3)

| Gas             | g     | MW    | g mol        | Mol free        |
|-----------------|-------|-------|--------------|-----------------|
| N <sub>2</sub>  | 20    | 28.02 | 0.7138       | 0.1648 mol free |
| O <sub>2</sub>  | 83    | 32.00 | 2.5938       | 0.5990          |
| CO <sub>2</sub> | 45    | 44.01 | 1.0225       | 0.2362          |
| Total           | 148 g |       | 4.3301 g mol | 1.0000          |

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

# Solution Manual For Transport Phenomena Geankoplis

**AW Rasmussen**



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In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is really astonishing. Within the pages of "**Solution Manual For Transport Phenomena Geankoplis**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve in to the book is central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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