

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

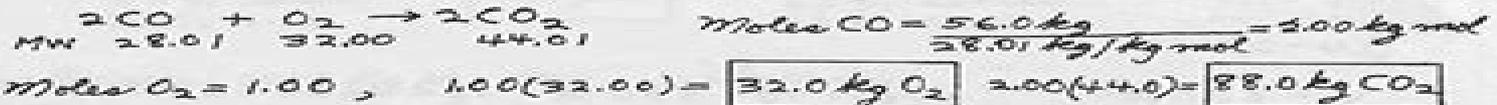
Eq. (1.3-4) $K = ^\circ\text{C} + 273.15 = 68.33 + 273.15 = \boxed{341.5\text{ K}}$

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

(1.3-1)

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

(1.3-2)



(1.3-3)

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

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

Geankoplis Transport Processes Solution Manual 4th

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Sains Malaysia), Keat Teong Lee, Irvan
Dahlan**

Geankoplis Transport Processes Solution Manual 4th:

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accessible guide available on modern separation processes and the fundamentals of mass transfer Phillip C Wankat teaches each key concept through detailed realistic examples using real data including up to date simulation practice and new spreadsheet based exercises Wankat thoroughly covers each of today s leading approaches including flash column and batch distillation exact calculations and shortcut methods for multicomponent distillation staged and packed column design absorption stripping and more In this edition he also presents the latest design methods for liquid liquid extraction This edition contains the most detailed coverage available of membrane separations and of sorption separations adsorption chromatography and ion exchange Updated with new techniques and references throughout Separation Process Engineering Third Edition also contains more than 300 new homework problems each tested in the author s Purdue University classes Coverage includes Modular up to date process simulation examples and homework problems based on Aspen Plus and easily adaptable to any simulator Extensive new coverage of mass transfer and diffusion including both Fickian and Maxwell Stefan approaches Detailed discussions of liquid liquid extraction including McCabe Thiele triangle and computer simulation analyses mixer settler design Karr columns and related mass transfer analyses Thorough introductions to adsorption chromatography and ion exchange designed to prepare students for advanced work in these areas Complete coverage of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and key applications A full chapter on economics and energy conservation in distillation Excel spreadsheets offering additional practice with problems in distillation diffusion mass transfer and membrane separation

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