

1.1^a. Concentration of a gas mixture.

A mixture of noble gases [helium (1), argon (2), krypton (3), and xenon (4)] is at a total pressure of 200 kPa and a temperature of 400 K. If the mixture has equal mole fractions of each of the gases, determine:

a) The composition of the mixture in terms of mass fractions.

Solution:

Basis: 100 kmole of the mixture

$$\begin{aligned}
 \text{ORIGIN} &:= 1 & \text{kmole} &:= 1000 \cdot \text{mole} \\
 \text{moles} &:= \begin{pmatrix} 25 \\ 25 \\ 25 \\ 25 \end{pmatrix} \cdot \text{kmole} & \text{MW} &:= \begin{pmatrix} 4 \\ 40 \\ 83.8 \\ 131.3 \end{pmatrix} \frac{\text{kg}}{\text{kmole}} & \text{mass} &:= \overrightarrow{(\text{moles} \cdot \text{MW})} \\
 \text{mass} &:= \begin{pmatrix} 100 \\ 1 \times 10^3 \\ 2.095 \times 10^3 \\ 3.283 \times 10^3 \end{pmatrix} \text{kg} & \text{total} &:= \sum_{i=1}^4 \text{mass}_i & \text{total} &:= 6.478 \times 10^3 \text{ kg} \\
 \text{mass_fraction} &:= \frac{\text{mass}}{\text{total}} & \text{mass_fraction} &:= \begin{pmatrix} 0.015 \\ 0.154 \\ 0.323 \\ 0.507 \end{pmatrix}
 \end{aligned}$$

b) The average molecular weight of the mixture.

Solution

$$\begin{aligned}
 \text{kmole} &:= 1000 \cdot \text{mole} \\
 M_{av} &:= \frac{\text{total}}{100 \cdot \text{kmole}} & M_{av} &= 0.065 \frac{\text{kg}}{\text{mol}}
 \end{aligned}$$

c) The total molar concentration.

Solution

$$\begin{aligned}
 P &:= 200 \cdot \text{kPa} & T &:= 400 \cdot \text{K} & \text{kPa} &:= 1000 \cdot \text{Pa} \\
 c &:= \frac{P}{R \cdot T} & R &:= 8.314 \cdot \text{kPa} \cdot \text{m}^3 \cdot \text{kmole}^{-1} \cdot \text{K}^{-1} \\
 c &= 60.14 \frac{\text{mol}}{\text{m}^3}
 \end{aligned}$$

d) The mass density.

Solution

$$\begin{aligned}
 \rho &:= c \cdot M_{av} & \rho &= 3.896 \frac{\text{kg}}{\text{m}^3}
 \end{aligned}$$

Mass Transfer Treybal Solution Manual

SJ Ball



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Solutions Manual to Accompany Mass-transfer Operations, Third Edition Robert Ewald Treybal, 1980

Handbook of Downstream Processing E. Goldberg, 2012-12-06 The last two decades have seen a phenomenal growth of the field of genetic or biochemical engineering and have witnessed the development and ultimately marketing of a variety of products typically through the manipulation and growth of different types of microorganisms followed by the recovery and purification of the associated products The engineers and biotechnologists who are involved in the full scale process design of such facilities must be familiar with the variety of unit operations and equipment and the applicable regulatory requirements This book describes current commercial practice and will be useful to those engineers working in this field in the design construction and operation of pharmaceutical and biotechnology plants It will be of help to the chemical or pharmaceutical engineer who is developing a plant design and who faces issues such as Should the process be batch or continuous or a combination of batch and continuous How should the optimum process design be developed Should one employ a new revolutionary separation which could be potentially difficult to validate or use accepted technology which involves less risk Should the process be run with ingredients formulated from water for injection deionized water or even filtered tap water Should any of the separations be run in cold rooms or in glycol jacketed lines to minimize microbial growth where sterilization is not possible Should the process equipment and lines be designed to be sterilized in place cleaned in place or should every piece be broken down cleaned and autoclaved after every turn **Catalog of Copyright Entries.**

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Water and Wastewater Calculations Manual Shun Dar Lin, Shundar Lin, C. C. Lee, 2001 Adapted from the Handbook of Environmental Engineering Calculations Water and Waste Water Calculations Manual is designed as a quick reference resource for solving most of the mathematical problems encountered by professionals specializing in water and wastewater Calculations methods for all areas of water and wastewater are represented and practical solutions are provided Water and Waste Water Calculations Manual includes such topics as conversion factors calculations for flows in aquifers pumping stream saturation techniques for classification of lake water quality hydraulics for environmental engineers pipe networks for water supply distribution and fundamental concepts of water flow in pipes weirs orifices and open channels **Advanced Physicochemical Treatment Processes** Lawrence K. Wang, Yung-Tse Hung, Nazih K. Shammas, 2007-11-10 The past thirty years have witnessed a growing worldwide desire that positive actions be taken to restore and protect the environment from the degrading effects of all forms of pollution air water soil and noise Because pollution is a direct or indirect consequence of waste the seemingly idealistic demand for zero discharge can be construed as an unrealistic demand for zero waste However as long as waste continues to exist we can only attempt to abate the subsequent pollution by converting it to a less noxious form Three major questions usually arise when a particular type of pollution has been identified 1 How serious is the pollution 2 Is the technology to abate it available and 3 Do

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Design of Water Resource Recovery Facilities, Manual of Practice No.8, Sixth Edition Water Environment Federation, 2017-09-29 Complete Coverage of the State of the Art in Water Resource Recovery Facility Design Featuring contributions from hundreds of wastewater engineering experts this fully updated guide presents the latest in facility planning configuration and design Design of Water Resource Recovery Facilities WEF Manual of Practice No 8 and ASCE Manuals and Reports on Engineering Practice No 76 Sixth Edition covers key technical advances in wastewater treatment including Advances with membrane bioreactors applications Advancements within integrated fixed film activated sludge IFAS systems and moving bed biological reactors systems Biotrickling filtration for odor control Increased use of ballasted flocculation Enhanced nutrient control systems Sidestream nutrient removal to reduce the loading on the main nutrient removal process Use and application of wireless instrumentation Use and application of modeling wastewater treatment processes for the basis of design and evaluations of alternatives Process design and disinfection practices to minimize generation of TTHMs and other organics monitored for potable water quality Approaches to minimizing biosolids production and advances in biosolids handling including effective thermal hydrolysis and improvements in sludge thickening and dewatering technologies Increasing goals toward energy neutrality and driving net zero Trend toward resource recovery

Handbook of Separation Process Technology Ronald W. Rousseau, 1987-05-13 Surveys the selection design and operation of most of the industrially important separation processes Discusses the underlying principles on which the processes are based and provides illustrative examples of the use of the processes in a modern context Features thorough treatment of newer separation processes based on membranes adsorption chromatography ion exchange and chemical complexation Includes a review of historically important separation processes such as distillation absorption extraction leaching and crystallization and considers these techniques in light of recent developments affecting them *Manual on Indoor Air Quality* R. C. Diamond, 1984

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Encyclopedia of Energy Technology and the Environment Attilio Bisio, Sharon Boots, 1995

Proceedings of the Estonian Academy of Sciences, Chemistry, 2004-09

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