

Solutions Manual to Accompany

Basic Principles and Calculations in Chemical Engineering

Seventh Edition

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PRENTICE HALL
Professional Technical Reference
Upper Saddle River, New Jersey 07458

TYPICAL EXAMS FOR A ONE SEMESTER COURSE (scheduled in the evening to avoid time constraints on students)

Exam No. 1 (Open Book, 1 1/2 hours)

PROBLEM 1 (31%)

Hydrogen can be separated from natural gas by diffusion through a round tube. The rate of separation is given by

$$N = 2 \pi DpR$$

where

- N = rate of transport of H_2 from the tube, g moles/(sec)(cm of length of tube)
- D = diffusion coefficient
- p = partial density of H_2 , g molecules/cm²
- R = log mean radius of tube, $r_2 - r_1 / \ln \left(\frac{r_2}{r_1} \right)$, with r in cm.

What are the units of D ?

PROBLEM 2 (31%)

A pellet of bones weighing 10 tons is dropped from a lift truck from a height of 10 feet. The maximum velocity that pellet attains before hitting the ground is 8 ft/sec. How much kinetic energy does the pellet have in (ft)(lb) at this velocity?

PROBLEM 3 (31%)

The specific gravity of a fuel oil is 0.82. What is the density of the oil in lb/ft³? Show all units.

PROBLEM 4 (31%)

Sulfur trioxide (SO_3) can be absorbed in sulfuric acid solution to form more concentrated sulfuric acid. If the gas to be absorbed contains 10% SO_3 , 41% H_2 , 3% SO_2 , and 4% O_2 , how many parts per million of O_2 are there in the gas? (b) What is the composition of the gas on a H_2 free basis?

PROBLEM 5 (31%)

You have 100 kilograms of gas of the following composition:

CH_4	30%
H_2	10%
N_2	60%

What is the average molecular weight of this gas?

PROBLEM 6 (31%)

If the heat capacity of a substance is 3.32 Btu/(°C) and its molecular weight is 25.4, what is its heat capacity in

- (a) Btu/(°F)
- (b) Btu/(°C)
- (c) Btu/(lb)(°C)

PROBLEM 7 (31%)

A rock containing 100% $BaSO_4$ is heated with coke (94% C, 6% ash) and the composition of the product is $BaSO_4$ (11.1%), BaS (70.9%), C (11.9%), ash (2.2%). The reaction is



Calculate the percent excess reactant, and the degree of completion of the reaction.

PROBLEM 8 (31%)

A gas cylinder to which is attached an Bourdon gage appears to be at a pressure of 21.38 in. H_2O at 70°F. The barometer reads 101.8 kPa. A student claims that the pressure in the tank is 1.3 psia, but another student points out that this is impossible - the pressure is really 28.2 psia. Can 1.3 psia be correct? Explain and show calculations to back up your explanation.

Solution Manual For Himmelblau

Puja Mehta



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models that are discussed in the various chapters The Method of Response Functions in Psychology and Sociology is aimed at Mathematical Psychologists Mathematical Sociologists Applied Psychologists Sociologists and Social Practitioners It will also be suitable for use on undergraduate as well as graduate and postgraduate courses specializing in these areas **ICGG**

2018 - Proceedings of the 18th International Conference on Geometry and Graphics Luigi Cocchiarella, 2018-07-06

This book gathers peer reviewed papers presented at the 18th International Conference on Geometry and Graphics ICGG held in Milan Italy on August 3 7 2018 The spectrum of papers ranges from theoretical research to applications including education in several fields of science technology and the arts The ICGG 2018 mainly focused on the following topics and subtopics Theoretical Graphics and Geometry Geometry of Curves and Surfaces Kinematic and Descriptive Geometry Computer Aided Geometric Design Applied Geometry and Graphics Modeling of Objects Phenomena and Processes Applications of Geometry in Engineering Art and Architecture Computer Animation and Games Graphic Simulation in Urban and Territorial Studies Engineering Computer Graphics Computer Aided Design and Drafting Computational Geometry Geometric and Solid Modeling Image Synthesis Pattern Recognition Digital Image Processing and Graphics Education Education Technology Research Multimedia Educational Software Development E learning Virtual Reality Educational Systems Educational Software Development Tools MOOCs Given its breadth of coverage the book introduces engineers architects and designers interested in computer applications graphics and geometry to the latest advances in the field with a particular focus on science the arts and mathematics education *AB Bookman's Weekly* ,1992 *Research in Education* ,1973-12 *Resources in Education* ,1973 *American Book Publishing Record Cumulative, 1950-1977: Title index* R.R. Bowker Company. Department of Bibliography,1978 *Lees' Loss Prevention in the Process Industries* Frank

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