

Assignment #2

Due: Thursday September 28, 4.30 pm

Question 1: Chapter 2- problem #2.46 (FRB, 4th edition); 2.37 (FR 3rd edition)

In modeling the effect of an impurity on crystal growth, the following equation was derived:

$$\frac{G - G_L}{G_0 - G} = \frac{1}{K_L C^m}$$

where C is impurity concentration, G_L is a limiting growth rate, G_0 is the growth rate of the crystal with no impurity present, and K_L and m are model parameters.

In a particular experiment, $G_0 = 3.00 \times 10^{-3}$ mm/min, and $G_L = 1.80 \times 10^{-3}$ mm/min. Growth rates are measured for several impurity concentrations C (parts per million, or ppm), with the following results:

$C(\text{ppm})$	50.0	75.0	100.0	125.0	150.0
$G(\text{mm/min}) \times 10^3$	2.50	2.20	2.04	1.95	1.90

(For example, when $C = 50.0$ ppm, $G = 2.50 \times 10^{-3}$ mm/min).

(a) Determine K_L and m , giving both numerical values and units.

(b) A solution is fed to a crystallizer in which the impurity concentration is 475 ppm. Estimate the expected crystal growth rate in (mm/min). Then state why you would be extremely skeptical about this result.

Question 2: Chapter 2 - problem # 2.55 a; b; c (FRB, 4th edition); 2.45 a; b; c (FR 3rd edition)

The rate at which a substance passes through a semipermeable membrane is determined by the diffusivity $D(\text{cm}^2/\text{s})$ of the gas. D varies with the membrane temperature $T(\text{K})$ according to the Arrhenius equation:

$$D = D_0 \exp(-E/RT)$$

Where D_0 = the preexponential factor

E = the activation energy for diffusion

$R = 1.987 \text{ cal}/(\text{mol K})$

Diffusivities of SO_2 in a fluorosilicone rubber tube are measured at several temperatures, with the following results:

$T(\text{K})$	$D(\text{cm}^2/\text{s}) \times 10^9$	
347.0	1.34	← (so that $D = 1.34 \times 10^{-9} \text{ cm}^2/\text{s}$)
374.2	2.50	
396.2	4.55	
420.7	8.52	
447.7	14.07	
471.2	19.99	

(a) What are the units of D_0 and E ?

(b) How should the data be plotted to obtain a straight line on rectangular coordinates?

(c) Plot the data in the manner indicated in Part (b) and determine D_0 and E from the resulting line.

(d) Repeat Part (c) using a spreadsheet program.

Itt It 203 Lab Manual Answers

Ying Liu



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