

$$j_1|_{x=0} = \sqrt{\frac{D}{\pi t}} (c_{10} - c_{1\infty})$$

The concentration at the surface is given by Henry's Law:

$$c_{10} = \frac{p}{H} = \frac{0.93 \text{ atm}}{37000 \frac{\text{cm}^3 \text{ atm}}{\text{mol}}} = 2.5 \cdot 10^{-5} \frac{\text{mol}}{\text{cm}^3}$$

Since we have a semiinfinite slab we assume $c_{1\infty} = 0$. To find the flux over the total time t , we integrate:

$$N_1 = \int_0^t A j_1|_{x=0} dt = A \int_0^t \sqrt{\frac{D}{\pi t}} (c_{10} - 0) dt = A c_{10} \sqrt{\frac{D}{\pi}} \int_0^t \frac{dt}{\sqrt{t}} = 2 A c_{10} \sqrt{\frac{D}{\pi}} \left[\sqrt{t} \right]_0^t = 2 A c_{10} \sqrt{\frac{Dt}{\pi}}$$

Assuming an ideal gas, the flux N_1 is given by:

$$N_1 = \frac{PV}{RT} = \frac{(0.93 \text{ atm})(0.82 \text{ cm}^3)}{\left(82.06 \frac{\text{cm}^3 \text{ atm}}{\text{K} \cdot \text{mol}}\right)(289 \text{ K})} = 3.2 \cdot 10^{-5} \text{ mol}$$

Solving for D , we have:

$$D = \left(\frac{N_1}{2 A c_{10}} \right)^2 \cdot \frac{\pi}{t} = \left[\frac{3.2 \cdot 10^{-5} \text{ mol}}{(36.3 \text{ cm}^2) \left(2.5 \cdot 10^{-5} \frac{\text{mol}}{\text{cm}^3} \right)} \right]^2 \cdot \frac{\pi}{180 \text{ s}} = 5.4 \cdot 10^{-6} \frac{\text{cm}^2}{\text{s}}$$

4. Permeability of water across a polymer film

The rate of water loss can be found by linear regression or by simply using the first and last data points:

$$N_1 = \frac{14.0153 \text{ g} - 13.5256 \text{ g}}{16 \text{ days}} = 0.031 \frac{\text{g}}{\text{day}}$$

The molar flux is given by:

$$j_1 = \frac{N_1}{A} = \frac{0.031 \frac{\text{g}}{\text{day}} \cdot \frac{1 \text{ mol}}{18.015 \text{ g}} \cdot \frac{1 \text{ day}}{24 \text{ hr}} \cdot \frac{1 \text{ hr}}{3600 \text{ s}}}{85.6 \text{ cm}^2} = 2.3 \cdot 10^{-10} \frac{\text{mol}}{\text{cm}^2 \text{ s}}$$

From Eq. (2-2.10) we have:

$$j_1 = \frac{DH}{\ell} \Delta c_1$$

We need to find Δc_1 . We first calculate the difference in the partial pressure of water across the film. From a steam table we find that at 35 °C, $p_{\text{sat}} = 0.0555 \text{ atm}$. Since the air inside the bag is saturated, we have:

$$\Delta p_1 = p_{\text{sat}} - 0.75 p_{\text{sat}} = 0.25 p_{\text{sat}} = 0.25(0.0555 \text{ atm}) = 0.0139 \text{ atm}$$

Assuming an ideal gas, the concentration difference is:

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Abhilasha Shourie



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Basiswissen Physikalische Chemie Claus Czeslik, Heiko Seemann, Roland Winter, 2010-04-19 Das Basiswissen der Physikalischen Chemie wird in klarer und kompakter Weise dargestellt Angesichts des Umfangs traditioneller Lehrbücher der Physikalischen Chemie soll der hier dargebotene Stoff das Lernen für Prüfungen und Klausuren erleichtern Ziel des Buches ist es für die fortgeschrittene und spezielle Ausbildung in diesem Fach ein tragfähiges mathematisch fundiertes Fundament zu legen Neben der makroskopischen phänomenologischen Beschreibungsweise kommt der molekularen theoretischen Deutung der Begriffe und Gesetzmäßigkeiten eine zentrale Rolle zu Wichtige Aspekte der quantenmechanischen Darstellung molekularer Eigenschaften werden ebenfalls besprochen **Separation Process Engineering** Phillip C.

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Chemistry and Industry, 1986 Chemical Engineering Terminology Muhammad Rashid Usman, Mahmood Saleem, Rabya Aslam, 2015-04-25 This book is a comprehensive collection of chemical engineering terms in a single volume The book is a useful reference material for the people both at the schools and the industry Our experience of teaching and research over the years has made us to realize a must book of this kind Better understanding of the terms helps in better understanding the relevant literature and in communicating with more assurance and less use of words The book is easy to use as the terms are written in an alphabetical order Where a term deserves more elaboration a rather detailed description is provided The book also contains a number of labeled diagrams which are extremely helpful in comprehending some important terms

Industrial Product Design of Solids and Liquids Wilfried Rähse, 2014-04-23 Offering invaluable insights from a chemist with over 35 years experience in the industry this practical guide incorporates numerous practical examples and case studies to explain the concepts included here The author explains the processes involved in product design how to set up experiments and ultimately how to scale up Among the host of topics covered is a discussion of recent advances in the fundamentals and innovative technologies leading to new and improved products Industrial Product Design of Solids and Liquids A Practical Guide is essential reading for the pharmaceutical cosmetics and personal care food fragrance paints plastics and agricultural industries

Incompressible Flow and the Finite Element Method: Incompressible Flow and the Finite Element Method & Advection-Diffusion and Isothermal Laminar Flow (Combined Edition) P. M. Gresho, R. L. Sani, Michael S. Engelman, 1998-06-18 This comprehensive reference work covers all

the important details regarding the application of the finite element method to incompressible flows It addresses the theoretical background and the detailed development of appropriate numerical methods applied to the solution of a wide range of incompressible flows beginning with extensive coverage of the advection diffusion equation in volume one For both this equation and the equations of principal interest the Navier Stokes equations covered in detail in volume two detailed discussion of both the continuous and discrete equations is presented as well as explanations of how to properly march the time dependent equations using smart implicit methods Boundary and initial conditions so important in applications are carefully described and discussed including well posedness The important role played by the pressure so confusing in the past is carefully explained Together this two volume work explains and emphasizes consistency in six areas consistent mass matrix consistent pressure Poisson equation consistent penalty methods consistent normal direction consistent heat flux consistent forces Fully indexed and referenced this book is an essential reference tool for all researchers students and applied scientists in incompressible fluid mechanics

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