

## Chapter 2 Diffusion in dilute solutions

### 1. Water evaporation

To find the rate of evaporation, we need to find the flux of water across the air film:

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

Since the film is made up of air,  $H = 1$ . We are given  $D$  and  $\ell$ , so we need to find  $\Delta c_1$ . We first calculate the difference in the partial pressure of water across the film. From a steam table we find that at  $20^\circ\text{C}$ ,  $p_{\text{sat}} = 2.3388 \text{ kPa}$ . Since the air immediately above the water is saturated we have:

$$\Delta p_1 = p_{\text{sat}} - 0.5 p_{\text{sat}} = 0.5 p_{\text{sat}} = 0.5(2.3388 \text{ kPa}) = 1.1694 \text{ kPa} = 1169.4 \text{ Pa}$$

Assuming an ideal gas, we can find the concentration difference:

$$\Delta c_1 = \frac{\Delta p_1}{RT} = \frac{1169.4 \text{ Pa}}{\left(8.3145 \frac{\text{J}}{\text{K} \cdot \text{mol}}\right)(293 \text{ K})} = 0.48 \frac{\text{mol}}{\text{m}^3} = 4.8 \cdot 10^{-7} \frac{\text{mol}}{\text{cm}^3}$$

We can now calculate the flux:

$$j_1 = \frac{0.25 \frac{\text{cm}^2}{\text{s}}}{0.15 \text{ cm}} \left(4.8 \cdot 10^{-7} \frac{\text{mol}}{\text{cm}^3}\right) = 8.0 \cdot 10^{-7} \frac{\text{mol}}{\text{cm}^2 \text{ s}}$$

To find the height change, we divide by the molar density of water:

$$\frac{8.0 \cdot 10^{-7} \frac{\text{mol}}{\text{cm}^2 \text{ s}}}{1 \frac{\text{g}}{\text{cm}^3} \cdot \frac{1 \text{ mol}}{18.015 \text{ g}}} = 1.44 \cdot 10^{-5} \frac{\text{cm}}{\text{s}} = 1.25 \frac{\text{cm}}{\text{day}}$$

### 2. Diffusion across a monolayer

Recalling that the resistance is the inverse of the permeance, we have:

$$\frac{1}{P} = 2 \frac{\text{s}}{\text{cm}} \Rightarrow P = 0.5 \frac{\text{cm}}{\text{s}}$$

We know that the permeance is given by:

$$P = \frac{DH}{\ell} \Rightarrow D = \frac{P\ell}{H} = \frac{\left(0.5 \frac{\text{cm}}{\text{s}}\right)(2.5 \cdot 10^{-7} \text{ cm})}{0.018} = 7 \cdot 10^{-6} \frac{\text{cm}^2}{\text{s}}$$

### 3. Diffusion coefficient of $\text{NO}_2$ in water

We treat the water as a semiinfinite slab. From Eq. (2.3-18) we know that the flux at the surface is given by:

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**Edward T. Howley, Dixie L. Thompson**



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**Forthcoming Books** Rose Arny,2004 Scientific and Technical Books and Serials in Print ,1984

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**Resources in Education** ,1979 *Bowker's Medical Books in Print* ,1975 *Product and Process Design Principles* Warren D. Seider,Daniel R. Lewin,J. D. Seader,Soemantri Widagdo,Rafiqul Gani,Ka Ming Ng,2016-05-17

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**Subject Guide to Books in Print**, 1984

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Miro Roman, Alice\_ch3n81, 2021-12-06. How does coding change the way we think about architecture? This question opens up an important research perspective. In this book, Miro Roman and his AI Alice\_ch3n81 develop a playful scenario in which they propose coding as the new literacy of information. They convey knowledge in the form of a project model that links the fields of architecture and information through two interwoven narrative strands in an infinite flow of real books. Focusing on the intersection of information technology and architectural formulation, the authors create an evolving intellectual reflection on digital architecture and computer science.

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Russell H. Powell, James R. Powell, 1987-10. [Distillation](#) Andrzej Gorak, Eva Sorensen, 2014-07-22. Distillation Fundamentals and Principles, winner of the 2015 PROSE Award in Chemistry/Physics, is a single source of authoritative information on all aspects of the theory and practice of modern distillation, suitable for advanced students and professionals working in a laboratory, industrial plants, or a managerial capacity. It addresses the most important and current research on industrial distillation, including all steps in process design, feasibility study, modeling, and experimental validation, together with operation and control aspects. This volume features an extra focus on the conceptual design of distillation. Winner of the 2015 PROSE Award in Chemistry/Physics from the Association of American Publishers. Practical information on the newest development, written by recognized experts. Coverage of a huge range of laboratory and industrial distillation approaches. Extensive references for each chapter facilitate further study.

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