

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 ℓ , so 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 20°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 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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Huw Golledge, Claire Richardson



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Chemical Product Design E. L. Cussler, G. D. Moggridge, 2011-05-12 The chemical industry is changing going beyond commodity chemicals to a palette of higher value added products This groundbreaking book now revised and expanded documents this change and shows how to meet the challenges implied Presenting a four step design process needs ideas selection manufacture the authors supply readers with a simple design template that can be applied to a wide variety of products Four new chapters on commodities devices molecules drugs and microstructures show how this template can be applied to products including oxygen for emphysema patients pharmaceuticals like taxol dietary supplements like lutein and beverages which are more satisfying For different groups of products the authors supply both strategies for design and summaries of relevant science Economic analysis is expanded emphasizing the importance of speed to market selling ideas to investors and an expectation of limited time in the market Extra examples homework problems and a solutions manual are available

Solution Behavior of Surfactants K.L. Mittal, E.J. Fendler, 2012-12-06 This and its companion Volume 2 comprise the proceedings of the International Symposium on Solution Behavior of Surfactants Theoretical and Applied Aspects organized under the auspices of the 11th Northeast Regional Meeting of the American Chemical Society held in Potsdam N Y June 30 July 3 1980 This Symposium represented the third event in the series of symposia dealing with the topic of surfactants in solution The first Symposium was held in Albany N Y in 1976 under the title Micellization Solubilization and Microemulsions 1 the proceedings of which have been documented in a two volume set The second was held under the title Solution Chemistry of Surfactants in 1978 in Knoxville TN and the proceedings of this event have also been properly chronicled Apropos the fourth biennial Symposium in this series is entitled International Symposium on Surfactants in Solution K L Mittal and B Lindman Cochairmen and is scheduled to be held from June 27 to July 2 1982 in Lund Sweden Since these biennial events have been very successful and important in bringing researchers with varied interests together and in stimulating interdisciplinary communication so the plans are to continue these on a regular basis with a change in venue for each meeting

Clive Cussler's The Devil's Sea Dirk Cussler, 2021-11-11 DIRK PITT IS BACK AND ON HIS SHOULDERS RESTS THE FATE OF THE ENTIRE PLANET JOIN THE LATEST THRILL RIDE FROM THE GRAND MASTER OF ADVENTURE CLIVE CUSSLER _____ In 1959 a Skytrain plane flees Tibet carrying a precious artefact but after crossing the Himalayas it is never seen again Sixty years later Dirk Pitt and NUMA are surveying near the Philippines when a rogue wave nearly sinks their ship Diverting to rescue washed away islanders Pitt discovers the wave has raised a sunken relic an ancient cargo plane But before he can get to the bottom of one mystery Pitt is hit with another beat the Chinese military to find a lost hypersonic missile Yet what should be a simple search and retrieve reveals evidence of a far more dangerous weapon Because the rogue wave that almost sank Pitt and devastated the islands was no natural phenomenon And the weapon that caused it is to be turned on a much bigger target _____ Praise for Clive Cussler The Adventure King Sunday

Express Just about the best in the business New York Post Cussler is hard to beat Daily Mail

Diffusion in Ternary Aqueous Saline Solutions Richard P. Wendt, Mohammed Shamim, 1970 *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

Chemical Engineering Miguel A. Galan, Eva Martin del Valle, 2005-10-31 Unlike extensive major reference works or handbooks Chemical Engineering Trends and Developments provides readers with a ready reference to latest techniques in selected areas of chemical engineering where research is and will be focused in the future These areas are bioseparations particle science and design nanotechnology and reaction engineering The aim of the book is to provide academic and R D researchers with an overview of the main areas of technical development and how these techniques can be applied Each chapter focuses on a technique plus a selection of applications or examples of where the technique could be applied

Measurement and Control of the Flow of Protein Solutions in a Micro-fluidic Macro-molecular Crystallizer Shramik Sengupta, 2004

Handbook of Food Processing Equipment George Saravacos, Athanasios E. Kostaropoulos, 2015-12-29 This text covers the design of food processing equipment based on key unit operations such as heating cooling and drying In addition mechanical processing operations such as separations transport storage and packaging of food materials as well as an introduction to food processes and food processing plants are discussed Handbook of Food Processing Equipment is an essential reference for food engineers and food technologists working in the food process industries as well as for designers of process plants The book also serves as a basic reference for food process engineering students The chapters cover engineering and economic issues for all important steps in food processing This research is based on the physical properties of food the analytical expressions of transport phenomena and the description of typical equipment used in food processing Illustrations that explain the structure and operation of industrial food processing equipment are presented style font size 13 3333330154419px The materials of construction and fabrication of food processing equipment are covered here as well as the selection of the appropriate equipment for various food processing operations Mechanical processing equipment such as size reduction size enlargement homogenization and mixing are discussed Mechanical separations equipment such as filters centrifuges presses and solids air systems plus equipment for industrial food processing such as heat transfer evaporation dehydration refrigeration freezing thermal processing and dehydration are presented Equipment for novel food processes such as high pressure processing are discussed The

appendices include conversion of units selected thermophysical properties plant utilities and an extensive list of manufacturers and suppliers of food equipment

Handbook of Fat Replacers Sibel Roller, Sylvia A. Jones, 1996-06-20

Technology is only beginning to catch up with the public demand for foods that are low in fat and taste good An extensive number of ingredients are under development for the sole purpose of fat replacement using a variety of approaches and base materials The Handbook of Fat Replacers describes in detail for the first time in a single volume the science and application of fat replacers in food products including the multiplicity of technological legislative sensory nutritional and marketing issues involved Part I of the Handbook is an overview of fundamental issues including historical analyses and critical assessments of technological strategies in the development of low fat foods and the ingredients used as fat replacers Part II discusses individual fat replacers and their properties in detail The compounds are organized by their composition starch derived fiber based protein based gums emulsifiers bulking agents combination systems comprised of interactive blends low calorie fats and synthetic fat substitutes are all examined in detail

Forthcoming Books Rose Arny, 2004

Separation Process Engineering Phillip C. Wankat, 2022-10-24 The Definitive Learner Friendly Guide to Chemical Engineering Separations Extensively Updated Including a New Chapter on Melt Crystallization Efficient separation processes are crucial to addressing many societal problems from developing new medicines to improving energy efficiency and reducing emissions Separation Process Engineering Fifth Edition is the most comprehensive accessible guide to modern separation processes and the fundamentals of mass transfer In this completely updated edition Phillip C Wankat teaches each key concept through detailed realistic examples using actual data with up to date simulation practice spreadsheet based exercises and references Wankat thoroughly covers each separation process including flash column and batch distillation exact calculations and shortcut methods for multicomponent distillation staged and packed column design absorption stripping and more His extensive discussions of mass transfer and diffusion enable faculty to teach separations and mass transfer in a single course And detailed material on liquid liquid extraction adsorption chromatography and ion exchange prepares students for advanced work New and updated content includes melt crystallization steam distillation residue curve analysis batch washing the Shanks system for percolation leaching eutectic systems forward osmosis microfiltration and hybrid separations A full chapter discusses economics and energy conservation including updated equipment costs Over 300 new and updated homework problems are presented all extensively tested in undergraduate courses at Purdue University New chapter on melt crystallization solid liquid phase equilibrium suspension static and falling film layer approaches and 34 questions and problems New binary VLE equations and updated content on simultaneous solutions New coverage of safety and fire hazards New material on steam distillation simple multi component batch distillation and residue curve analysis Expanded discussion of tray efficiencies packed column design and energy reduction in distillation New coverage of two hybrid extraction with distillation and the Kremser equation in fractional extraction Added sections on deicing with eutectic systems eutectic freeze

concentration and scale up New sections on forward osmosis and microfiltration Expanded advanced content on adsorption and ion exchange including updated instructions for eight detailed Aspen Chromatography labs Discussion of membrane separations including gas permeation reverse osmosis ultrafiltration pervaporation and applications Thirteen up to date Aspen Plus process simulation labs adaptable to any simulator This guide reflects an up to date understanding of how modern students learn designed organized and written to be exceptionally clear and easy to use It presents detailed examples in a clear standard format using real data to solve actual engineering problems preparing students for their future careers *Books in Print Supplement*, 2002 **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 The Sea Hunters Clive Cussler, Craig Dirgo, 2003-09 Collects accounts of the underwater discoveries made by the author and his team of volunteers dedicated to the exploration of historic wrecks including the Lexington and the Arkansas

Manual of Industrial Microbiology and Biotechnology Arnold L. Demain, Julian E. Davies, Ronald M. Atlas, 1999 The editors have enlisted a broad range of experts including microbial ecologists physiologists geneticists biochemists molecular biologists and biochemical engineers who offer practical experience not found in texts and journals This comprehensive perspective makes MIMB a valuable how to resource the structure of which resembles the sequence of operation involved in the development of a commercial biological process and product Books In Print 2004-2005 Ed Bowker Staff, Staff Bowker, Ed, 2004

The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals Huw Golledge, Claire Richardson, 2024-05-07 The latest edition of the seminal reference on the care and management of laboratory and research animals The newly revised ninth edition of The UFAW Handbook on the Care and Management of Laboratory and Other Research Animals delivers an up to date and authoritative exploration on worldwide developments current thinking and best practices in the field of laboratory animal welfare science and technology The gold standard in laboratory and captive animal care and management references this latest edition continues the series tradition of excellence by including brand new chapters on ethical review the care of aged animals and fresh guidance on the care of mole rats corvids zebrafish and decapods The book offers introductory chapters covering a variety of areas of laboratory animal use as well as chapters on the management and care of over 30 different taxa of animals commonly utilised in scientific procedures and research around the world It also provides A thorough introduction to the

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