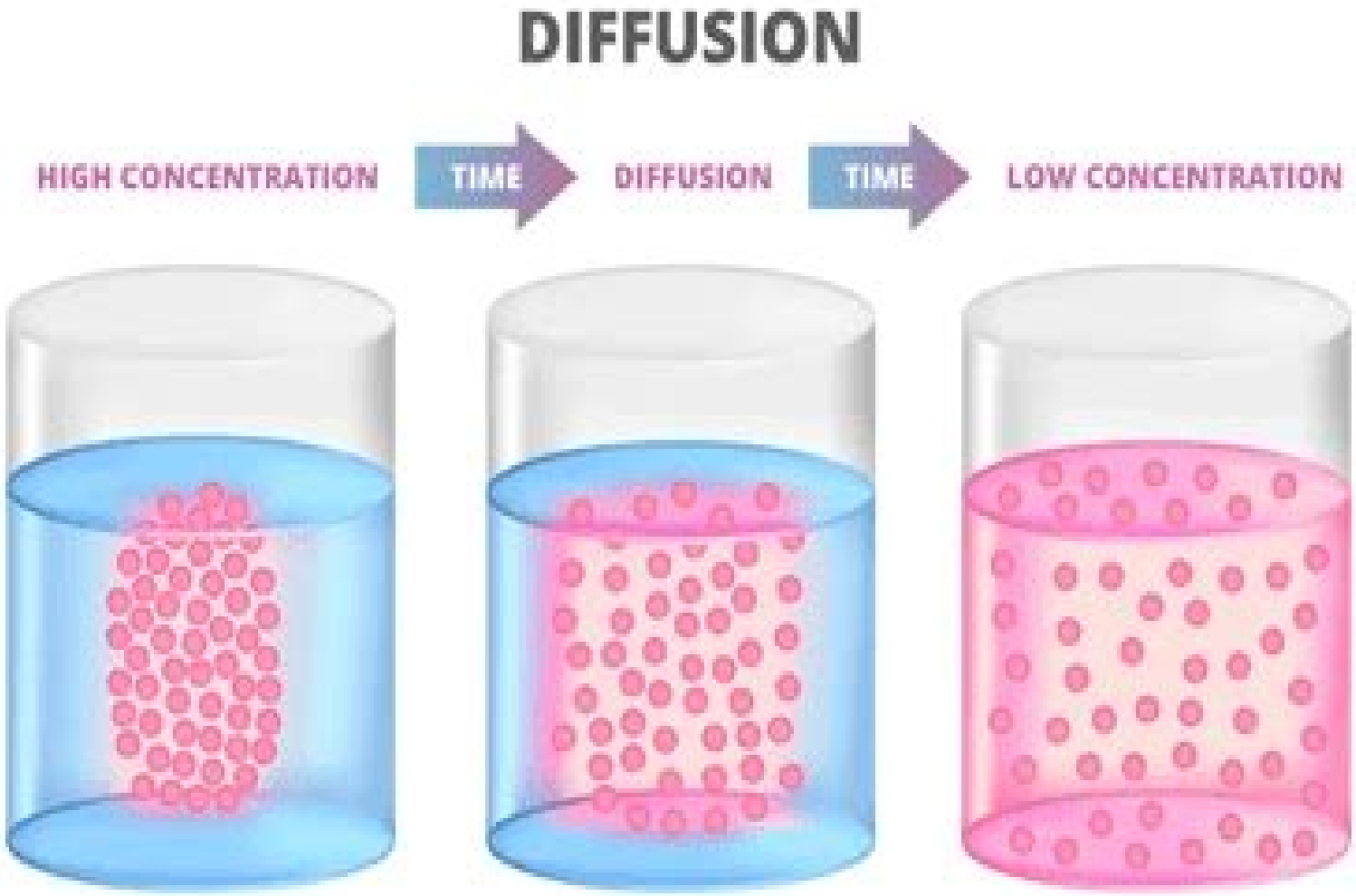


# Molecular diffusion in mass transfer

# Mass Transfer By Diffusion

Victor M. Corman

**Mass Transfer By Diffusion:**

**Diffusion** E. L. Cussler,1997-02-28 Clear and complete description of diffusion in fluids for undergraduate students in chemical engineering **Mass Transfer** D James Benton,2021-01-30 Mass transfer is similar to heat transfer in many ways Some of the same differential equations and solutions will work for either one There are differences including the fact that there is often no exchange of matter accompanying an exchange of energy in the form of heat The topics we consider in this text include diffusion dispersion and sorption We cover both analytical and numerical solutions **Diffusion and Mass Transfer** James S. Vrentas,Christine M. Vrentas,2016-04-19 Presenting diffusion and mass transfer from both engineering and fundamental science perspectives this book offers a comprehensive summary of the theory and applies that theory to obtain detailed solutions to a wide variety of problems It covers conservation laws and field equations boundary conditions constitutive equations parameters in constitutive equations and mathematical solution methods including Green s functions The authors pay particular attention to polymer mass transfer and they also discuss the free volume theory for prediction of self diffusion coefficients Problems analyzed include bubble dissolution impurity migration in plastic containers and drug delivery using polymers Heat Conduction and Mass Diffusion Benjamin Gebhart,1993 Containing not only classical material and analysis but using this as a basis for many kinds of application processes which are important in critical technologies this text provides a comprehensive treatment of heat and mass transfer at graduate level **Mass Transfer** Thomas Kilgore Sherwood,Robert Lamar Pigford,Charles R. Wilke,1975 Previous editions published under title Absorption and exttaction *Diffusional Mass Transfer* A. H. P. Skelland,1974 A Wiley Interscience publication **Mass Transfer by Eddy Diffusion** Byron B. Woertz,1939 *Multicomponent Diffusion* E. L. Cussler,2013-10-22 Multicomponent Diffusion discusses the multicomponent diffusion of the three phases of matter The book is comprised of nine chapters that cover studies of multicomponent diffusion and mass transfer with an emphasis on the chemical characteristics responsible for multicomponent diffusion Chapter 1 provides an introductory discourse about multicomponent diffusion Chapter 2 discusses binary diffusion while Chapter 3 covers multicomponent flux equation The measurement of ternary diffusion and the estimation of ternary diffusion coefficients are also explained in the book A chapter then covers the interacting systems and the subsequent chapter talks about membranes without mobile carriers The text also discusses carrier containing membranes and the multicomponent mass transfer The book will be of great use to researchers and professionals whose work requires a good understanding of multicomponent diffusion *Mass Transport in Solids and Fluids* David S. Wilkinson,2000-11-02 The field of matter transport is central to understanding the processing of materials and their subsequent mechanical properties While thermodynamics determines the final state of a material system it is the kinetics of mass transport that governs how it gets there This book first published in 2000 gives a solid grounding in the principles of matter transport and their application to a range of engineering problems The author develops a unified treatment of mass

transport applicable to both solids and liquids Traditionally matter transport in fluids is considered as an extension of heat transfer and can appear to have little relationship to diffusion in solids This unified approach clearly makes the connection between these important fields This book is aimed at advanced undergraduate and beginning graduate students of materials science and engineering and related disciplines It contains numerous worked examples and unsolved problems The material can be covered in a one semester course *Unit Operations-II* Ka Gavhane,2014-11 Introduction Conduction Convection Radiation Heat Exchange Equipments Evaporation Diffusion Distillation Gas Absorption Liquid Liquid Extraction Crystallisation Drying Appendix I Try yourself Appendix II Thermal conductivity data Appendix III Steam tables mass transfer , **Thermal and Solutal Convection in Some Hydromagnetic Flows** Nazibuddin Ahmed,2023-01-06 This book presents a theoretical analysis of several problems in thermal and solutal convections in magneto hydrodynamic MHD flows It provides a systemic discussion on the development of fluid dynamics continuum hypothesis Newton s law of viscosity heat transfer mass transfer thermal diffusion diffusion thermo MHD gray and non gray gases Fourier s law of conduction and Fick s law of diffusion in such a way that readers with little knowledge in physics will find it easier to understand the contents Some physical principles such as those governing fluid motion fluid temperature and fluid concentration are presented in vector form allowing the corresponding form to be derived in any orthogonal curvilinear coordinate system Laplace transform technique in closed form is used to obtain exact solutions to unsteady one dimensional flow problems an implicit finite difference method of Crank Nicholson type is used to solve unsteady two dimensional flow problems and an asymptotic series expansion method is used to solve the governing equations of the steady three dimensional flow problem analytically Flow and transport phenomena are thoroughly treated in each chapter separately This book emphasizes the influence of an induced magnetic field The outcomes of the works are graphically depicted so that readers can gain a tangible understanding of the problems It also includes a list of inverse Laplace transforms ILTs for several specific functions some of which are not found in the existing literature The ILTs of special functions are given in brief form and can further be utilized as standard formulae in finding those as special cases Some new special functions are introduced in the book along with appropriate definitions As a result the formulations for velocity temperature concentration skin friction Nusselt number and Sherwood number have been appeared in brief and convenient forms that are uncommon in other literature This book addresses numerous areas of contemporary magneto fluid dynamics research that have major implications in engineering It is primarily intended for researchers working in the field of heat and mass transfer in hydromagnetic flows Mass Transfer and Absorbers T. Hobler,2013-10-22 Mass Transfer and Absorbers deals with absorption and mass transfer processes and the factors to consider in designing absorbers Calculations are supported by a uniform generalized process driving force complying with Maxwell s equation and the coefficients are made as independent as possible in terms of the kind of diffusion and of the values of the concentrations This volume is comprised of seven chapters and begins with an overview of the

general principles of diffusional mass transfer absorption and stripping and equilibrium between gas and liquid phases Steady state mass transfer by diffusion is then discussed along with mass transfer in a single phase forced flow and unforced flow Subsequent chapters explore design considerations for mass transfer equipment and related problems adsorption accompanied by a chemical reaction and problems relating to hydrodynamics The final chapter is devoted to some practical issues including economic flow velocity and mechanical features of packed plate and spray tower designs This book is intended for practicing designers and engineers Technical Memorandum ,1954 Chiefly translations from foreign aeronautical journals **Transfer Processes** Donald Kenneth Edwards,Vernon E. Denny,Anthony F. Mills,1979 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine **Mass Transfer in Heterogeneous Catalysis** Charles N. Satterfield,1969 **Mass Transfer in Chemical Engineering Processes** Jozef Markoš,2011-11-04 This book offers several solutions or approaches in solving mass transfer problems for different practical chemical engineering applications measurements of the diffusion coefficients estimation of the mass transfer coefficients mass transfer limitation in separation processes like drying extractions absorption membrane processes mass transfer in the microbial fuel cell design and problems of the mass transfer coupled with the heterogeneous combustion I believe this book can provide its readers with interesting ideas and inspirations or direct solutions of their particular problems **Surface Mobilities on Solid Materials** Vu Thien Binh,2013-03-08 The surface of solids had long been considered simply the external boundary which determined the outside appearance of the solids but had no intrinsic character of its own The concept that surfaces have specific properties and are the first and foremost means of communication between individual things and the rest of the universe is fairly new coming into prominence only in the early sixties This new concept of surface properties was the result of a vast accumulation of knowledge due to recent development of research in this area This breakthrough of surface science resulted from the combined action of four factors i control of surface sample prep aration ii control of the surface s environment iii improve ment of measurement tools and techniques and iv the importance of surface properties in many new industrial areas Nearly eighty techniques are now available to help us answer to the following questions what is the surface structure or arrangement of surface atoms what are the atomic species present what is the spatial distribution of foreign atoms what are the nature and distribution of possible defects on the surface what is the electronic structure of the surface atoms what is the motion of atoms on the surface In general two or more analytical techniques are used concurrently to assure unequivocal answers to problems Different techniques employ different combina tions of incident probes and the scattered or secondary particles that convey information regarding the sur faces *Engineering Principles of Unit Operations in Food Processing* Seid Mahdi Jafari,2021-06-22 Engineering Principles of Unit Operations in Food Processing volume 1 in the Woodhead Publishing Series In Unit Operations and Processing Equipment in the Food Industry series presents basic principles of food

engineering with an emphasis on unit operations such as heat transfer mass transfer and fluid mechanics Brings new opportunities in the optimization of food processing operations Thoroughly explores applications of food engineering to food processes Focuses on unit operations from an engineering viewpoint **Mass Transfer and Separation Processes** Diran Basmadjian,2007-04-25 Mass transfer along with separation processes is an area that is often quite challenging to master as most volumes currently available complicate the learning by teaching mass transfer linked with heat transfer rather than focusing on more relevant techniques With this thoroughly updated second edition Mass Transfer and Separation Processes Pr

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