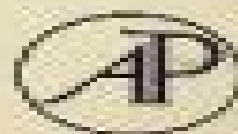


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*Retardation
of Evaporation
by Monolayers:*

TRANSPORT PROCESSES



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Retardation Of Evaporation By Monolayers

RS Peters



Retardation Of Evaporation By Monolayers:

Retardation of Evaporation by Monolayers Victor K. La Mer, 2014-05-12 *Retardation of Evaporation by Monolayers* Transport Processes covers the papers presented at the Symposium on The Retardation of Evaporation by Monolayers held under the sponsorship of the Division of Colloid and Surface Chemistry of the American Chemical Society in September 1960. The book focuses on the processes, reactions, methodologies, and technologies involved in the retardation of evaporation by monolayers. The selection first offers information on the evaporation resistances of monolayers of long chain acids and alcohols and their mixtures and laboratory investigation and evaluation of monolayers for retarding the evaporation of water. The book then examines the effect of monomolecular films on the surface temperature of water, influence of surface active compounds upon the diffusion of gases across air-water interface, and energy barrier for monolayer penetration. Discussions focus on the effects of hydrogen substitution on evaporation, effects of a monomolecular film of a saturated fatty acid or alcohol, effects of a polar group on evaporation, and determination of surface temperature. The text takes a look at the permeability of monolayers to several gases, effects of bacterial decomposition of hexadecanol and octadecanol in monolayer films, on the suppression of evaporation loss of water, and aspects of evaporation. The selection is highly recommended for researchers interested in the transport processes involved in the retardation of evaporation by monolayers. **Symposium on the Retardation of Evaporation by Monolayers, New York, N.Y., September 1960** American Chemical Society, Division of Colloid and Surface Chemistry, 1962. **Self-Assembly Monolayer Structures of Lipids and Macromolecules at Interfaces** K.S. Birdi, 2007-05-08 Self-assembly monolayer (SAM) structures of lipids and macromolecules have been found to play an important role in many industrial and biological phenomena. This book describes two procedures, namely the STM and AFM, that are used to study SAMs at solid surfaces. K. S. Birdi examines the SAMs at both liquid and solid surfaces by using the Langmuir monolayer method. This book is intended for researchers, academics, and professionals. RETARDATION OF EVAPORATION BY MONOLAYERS. TRANSPORT PROCESSES. SYMPOSIUM NEW YORK 1960 VICTOR KUHN (EDITOR) LA MER, 1962. **Lipid and Biopolymer Monolayers at Liquid Interfaces** K.S. Birdi, 2013-06-29 During the past few decades, much research has been reported on the formation of insoluble monomolecular films of lipids and biopolymers, synthetic polymers, and proteins on the surface of water or at the oil-water interface. This interest arises from the fact that monomolecular film studies have been found to provide much useful information on a molecular scale, information that is useful for understanding many industrial and biological phenomena in chemical, agricultural, pharmaceutical, medical, and food science applications. For instance, information obtained from lipid monolayer studies has been useful in determining the forces that are known to stabilize emulsions and biological cell membranes. The current texts on surface chemistry generally devote a single chapter to the characteristics of spread monolayers of lipids and biopolymers on liquids, and a researcher may have to review several hundred references to determine the procedures needed to investigate or analyze a particular

phenomenon Furthermore there is an urgent need at this stage for a text that discusses the state of the art regarding the surface phenomena exhibited by lipids and biopolymers as they are relevant to a wide variety of surface and interfacial processes *Effects of Monolayers on Insects, Fish and Wildlife* William J. Wiltzius, 1967 Douglas H. Everett, 1979-01-01 Reflecting the growing volume of published work in this field researchers will find this book an invaluable source of information on current methods and applications **Advances in Hydrosience** Ven Te Chow, 2013-10-22 *Advances in Hydrosience* Volume 3 1966 encompasses naval hydrodynamics biohydrodynamics magnetohydrodynamics hydrology and water resources The book presents articles on viscous resistance of ships magnetohydrodynamics of channel flow and hydrodynamics of blood flow in the circulatory system The text also includes articles about the biological treatment of waste water the processes and trends in the development of sea water conversion and the linearized steady theory of fully wetted hydrofoils The developments in the retardation of evaporation by the use of monolayers as well as the dynamic programming in water resources development are also encompassed Students and researchers in naval hydrodynamics biohydrodynamics magnetohydrodynamics hydrology and water resources will find the book invaluable Retardation of evaporation by monolayers : transport processes : proceedings Victor Kuhn La Mer, 1962 **Emulsions, Foams, Suspensions, and Aerosols** Laurier L. Schramm, 2014-08-12 This is the first book to provide an integrated introduction to the nature formation and occurrence stability propagation and uses of the most common types of colloidal dispersion in the process related industries The primary focus is on the applications of the principles paying attention to practical processes and problems This is done both as part of the treatment of the fundamentals where appropriate and also in the separate sections devoted to specific kinds of industries Throughout the treatment is integrated with the principles of colloid and interface science common to each dispersion type presented for each major physical property class followed by separate treatments of features unique to emulsions foams or suspensions The first half of the book introduces the fundamental principles introducing readers to suspension formation and stability characterization and flow properties emphasizing practical aspects throughout The following chapters discuss a wide range of industrial applications and examples serving to emphasize the different methodologies that have been successfully applied The author assumes no prior knowledge of colloid chemistry and with its glossary of key terms complete cross referencing and indexing this is a must have for graduate and professional scientists and engineers who may encounter or use emulsions foams or suspensions or combinations thereof whether in process design industrial production or in related R D fields *Offshore Petroleum Production* Robert W. Holmes, Floyd A. DeWitt, 1972 U.S. Environmental Protection Agency Library System Book Catalog Holdings as of July 1973 United States. Environmental Protection Agency. Library Systems Branch, 1974 Physics 1901 - 1921 Sam Stuart, 2013-09-11 *Progress in Surface and Membrane Science* Volume 13 covers the progress in understanding certain aspects of surface and membrane science including catalysis permeability and biomembranes This book is composed of six chapters The opening chapter deals

with the factors responsible for the selectivity of metal and alloy catalysts as well as some information on the electronic structure of metals and alloys The next chapter considers the theories characteristics natural membranes and macroscopic processes of monolayer permeation These topics are followed by discussions on the mechanism of structure formation and the rheological properties of interfacial adsorption layers of biopolymers Other chapters explore lipid associated thermal processes in biomembranes and the molecular structure properties and interactions of polar group region of the phospholipid bilayer The final chapter is a summary of numerous experimental and theoretical studies on the Gibbs elasticity of liquid films threads and foams This book will prove useful to surface and membrane scientists and researchers *Methods in*

Membrane Biology Edward D. Korn, 2013-11-11 Examination of the tables of contents of journals biochemical molecular biological ultrastructural and physiological provides convincing evidence that membrane biology will be in the 1970s what biochemical genetics was in the 1960s And for good reason If genetics is the mechanism for maintaining and transmitting the essentials of life membranes are in many ways the essence of life The minimal requirement for independent existence is the individualism provided by the separation of life from the environment The cell exists by virtue of its surface membrane One might define the first living organism as that stage of evolution where macromolecular catalysts or self reproducing polymers were first segregated from the surrounding milieu by a membrane Whether that early membrane resembled present cell membranes is irrelevant What matters is that a membrane would have provided a mechanism for maintaining a local concentration of molecules facilitating chemical evolution and allowing it to evolve into biochemical evolution That or yet more primitive membranes such as a hydrocarbon monolayer at an air water interface could also have provided a surface that would facilitate the aggregation and specific orientation of molecules and catalyze their interactions If primitive membranes were much more than mere passive barriers to free diffusion how much more is this true of the membranes of contemporary forms of life A major revolution in biological thought has been the recognition that the cell and especially the eukaryotic cell is a bewildering maze of membranes and membranous organelles **Geological Survey Professional**

Paper Geological Survey (U.S.), 1955 *NIH Library Booklist*, 1961 NUC Symposium on Environmental Preservation, 20-21 May, 1970, 1971 Surface and Colloid Science Egon Matijevic, 2012-12-06 The three sections of this volume deal with topics of broad interest The first deals with cetyl alcohol and is a most comprehensive study of this essential ingredient in the cosmetic and pharmaceutical industry with an explanation of its functionality The second is a most comprehensive up to date review of acid base interactions of a variety of materials including small molecules proteins and polyelectrolytes The third section describes the combined radiochemical and electrochemical methods in the evaluation of the properties of solids in contact with solutions **Applied Mechanics Reviews**, 1968 **Evaporation Retardation by Monolayers** R. Greif, 1973

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