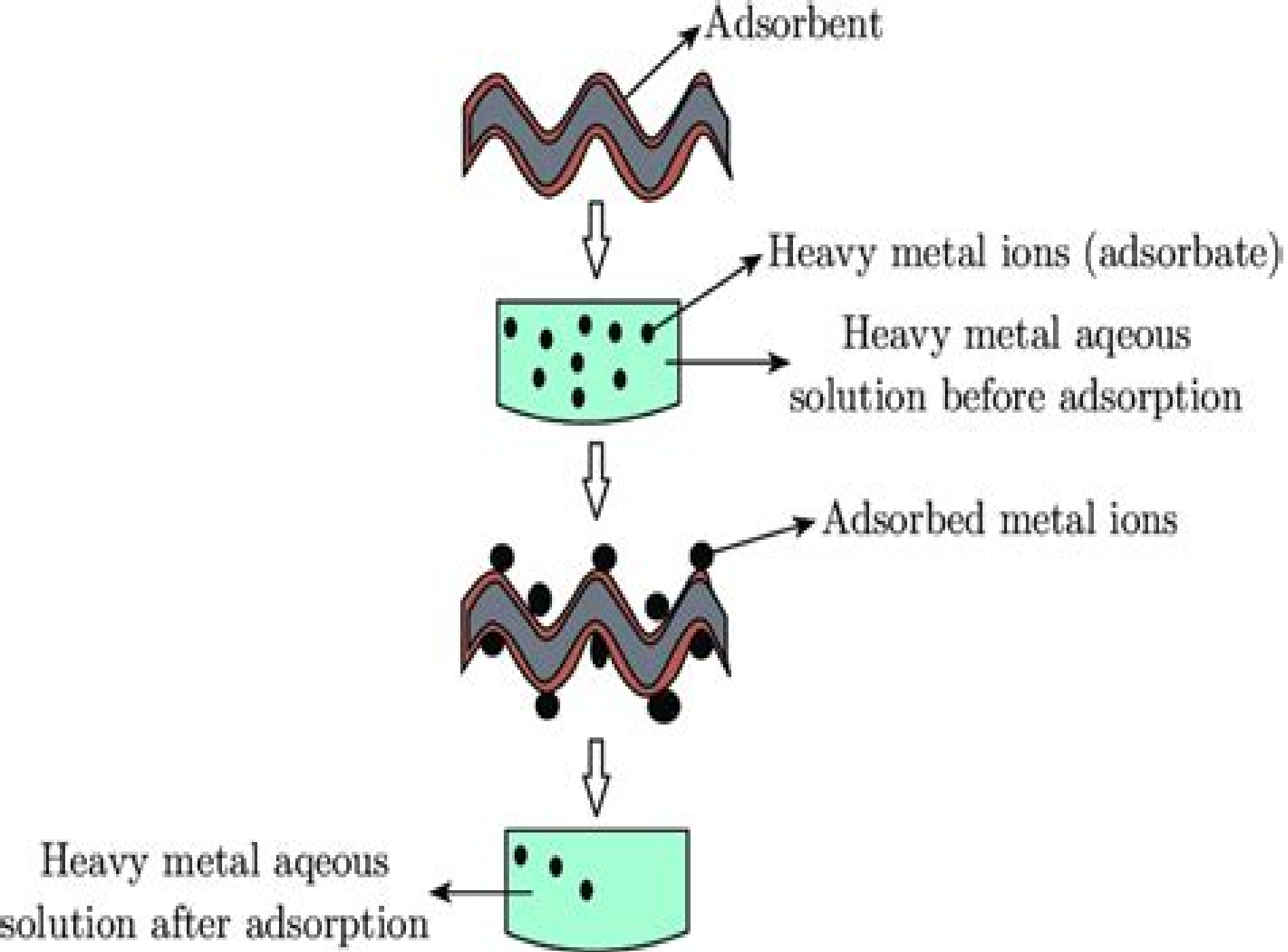




Adsorption From Solution At The Solid Liquid Interface

Raoul Zana



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The Thermodynamics of Adsorption from Solution at the Solid-liquid Interface P. C. Thompson, 1969 *Adsorption from Solution at the Solid/Liquid Interface* G. D. Parfitt, Colin H. Rochester, 1983 Non electrolytes Adsorption of small molecules Adsorption from mixtures of miscible liquids Adsorption of nonionic surfactants Adsorption of polymers Electrolytes Adsorption of small ions Adsorption of ionic surfactants Adsorption of dyes Adsorption of polyelectrolytes from dilute solution

Adsorption From Solution R. H. Ottewill, C.H. Rochester, A.L. Smith, 2012-12-02 Adsorption From Solution discusses the significance of adsorption behavior in thermodynamic terms with emphasis on the interplay between enthalpic and entropic contributions to the free energy This book examines the role of simple models and of elementary thermodynamic and statistical mechanical arguments in relation to the concept of surface phase Organized into 22 chapters this book starts with an overview of the theoretical model for the solid liquid interface This text then proceeds with a discussion of the general thermodynamic treatment of adsorption from mixed solvents which is designed to apply in situations where adsorbed species may be regarded as distinct from their bulk counterparts Other chapters discuss the adsorption from solutions of various interfaces of liquid gas liquid liquid or liquid solid The final chapter deals with the roles of adsorption from solution in controlling other phenomena such as liquid liquid displacement wetting and the forces between colloidal particles Physicists chemists and materials scientists will find this book extremely useful *Fundamentals of Interface and Colloid Science* J. Lyklema, 1995-10-17 Interface and colloid science is an important though often under valued branch of science It has applications and ramifications in domains as disparate as agriculture mineral dressing oil recovery chemical industry biotechnology medical science and many more Proper application of interface and colloid science requires factual knowledge and insight into the many basic laws of physics and chemistry upon which it is based Fundamentals of Interface and Colloid Science is the first book to cover this field in the depth necessary to be a valuable reference and an excellent textbook From the beginning to the end of the book systems of growing complexity are treated gradually The presentation is particularly suited to emphasize that interfaces are not autonomous phases As a rule interfacial properties can be varied only by changing the adjoining phases so that the properties of these bulk phases must be understood first The text also recognizes common principles behind a variety of phenomena and helps the reader to understand them and to develop and improve processes The systematic treatment of the material in the book makes this clear and makes the text itself an important contribution to the field Systematic treatment of information An excellent addition to volume I Two chapters contributed by other experts in the field Uses a deductive approach to increase the order of complexity Written by a leading expert in the field Two chapters contributed by other outstanding scientists Uses a systematic and deductive approach First comprehensive review of the topic **Introduction To Interfaces And Colloids, An: The Bridge To Nanoscience**

(Second Edition) John C Berg, 2024-03-19 This textbook seeks to bring readers with no prior knowledge or experience in

interfacial phenomena colloid science or nanoscience to the point where they can comfortably enter the current scientific and technical literature in the area Designed as a pedagogical tool this textbook recognizes the cross disciplinary nature of the subject To facilitate learning the topics are developed from the beginning with ample cross referencing The understanding of concepts is enhanced by clear descriptions of experiments and provisions of figures and illustrations

Surfactants Bob Aveyard, 2019-10-09 Surfactants today you have probably eaten some or rubbed others on your body Plants animals including you and microorganisms make them and many everyday products e g detergents cosmetics foodstuffs contain them Surfactant molecules have one part which is soluble in water and another which is not This gives surfactant molecules two valuable properties 1 they adsorb at surfaces e g of an oil droplet in water and 2 they stick together aggregate in water The aggregates micelles are able to dissolve materials not soluble in water alone and adsorbed surfactant layers at the surfaces of particles or say oil droplets in water stop the particles or drops sticking together This is why stable emulsions such as milk do not separate into layers This book treats the basic physical chemistry and physics underlying the behaviour of surfactant systems In this book you will first learn about some background material including hydrophobic hydration interfacial tension and capillarity Section I Discussion of surfactant adsorption at liquid fluid and solid liquid interfaces is given in Section II and includes thermodynamics of adsorption dynamic and rheological aspects of liquid interfaces and the direct characterisation of surfactant monolayers In Section III a description is given of surfactant aggregation to give micelles lyotropic liquid crystals microemulsions and Winsor systems There follows a discussion of surface forces and the way they confer stability on lyophobic colloids and thin liquid films Section IV Various dispersions stabilised by adsorbed surfactant or polymer including solid in liquid dispersions emulsions and foams are considered in Section V The wetting of solids and liquids is explored in Section VI Like surfactants small solid particles can adsorb at liquid fluid interfaces form monolayers and stabilise emulsions and foams Such behaviour is covered in Section VII It is assumed the reader has a knowledge of undergraduate physical chemistry particularly chemical thermodynamics and of simple physics Mathematics elementary algebra and calculus is kept at a level consistent with the straightforward derivation of many of the equations presented

Thermal Analysis and Calorimetry Aline Auroux, Ljiljana Damjanović-Vasilić, 2023-07-04 This book summarizes the application of thermal analysis tools in different research areas Areas covered include characterization of catalytic materials plastics and polymers analysis of salts minerals and oxides The reader is provided with an overview of experimental strategy methodology usage of complementary thermoanalytical methods and the type of information which could be drawn depending on the research field

Surfactants in Solution K.L. Mittal, 2012-12-06 This and its companion volumes 7 8 and 10 document the proceedings of the 6th International Symposium on Surfactants in Solution SIS held in New Delhi India August 18 22 1986 under the joint auspices of the Indian Society for Surface Science and Technology and Indian Institute of Technology Delhi As this symposium was a landmark it represented the tenth anniversary of this series of symposia so it is very apropos to reflect on

how these symposia have evolved to their present size and status The pedigree of this series of symposia goes back to 1976 when the premier symposium in this series was held Actually in 1976 it was a modest start and it was not possible at that time to gaze at the crystal ball and predict what would be the state of affairs in 1986 For historical purposes it should be recorded here that the first symposium was held in Albany NY under the title Micellization Solubilization and Microemulsions the second symposium was christened Solution Chemistry of Surfactants and was held in Knoxville TN in 1978 the venue for the third symposium in 1980 was Potsdam NY and it was dubbed International Symposium on Solution Behavior of Surfactants Theoretical and Applied Aspects

Radiotracer Studies of Interfaces G. Horanyi, 2004-09-18 Radiotracer Studies of Interfaces presents a selection of examples illustrating the application of radiotracer studies for different types of interfaces The value of radiotracer studies in fields such as food chemistry corrosion of metals neurochemistry biology and catalysis is revealed Separate chapters are devoted to the environmental problems connected with nuclear reactors and with the nuclear industry in general The book also presents efforts to minimize and avoid the risk of radioactive contamination in the environment by describing new approaches to the problem Demonstrates the use of radiotracers Contains a detailed discussion of double layer phenomena Separate chapters are devoted to the most important branches of science where radiotracer study of interfacial phenomena plays an important role

Surfactant Science and Technology Drew Myers, 2005-10-28 A general introduction to surfactants surface activity and surfactant applications Important advances in the tools available for studying the activity of surfactants has significantly increased scientific understanding of interfaces at the molecular level However there is still much to be learned In this Third Edition of the successful classic author and expert Drew Myers combines the latest information available in the field of surfactants with his original accessible text on the subject Now fully updated to reflect recent developments in working with surfactants in both model and practical systems the Third Edition of Surfactant Science and Technology provides a solid introduction to the field of surfactant science Written especially for beginners and nonspecialists who would like a practical but not necessarily comprehensive knowledge of the field this clear cogent text conveys the most fundamental and useful concepts of surfactant action and application New chapters bring readers up to date on current biological and medical applications of surfactants as well as applications in food science cosmetics and other areas In addition to new chapters Surfactant Science and Technology includes illustrative problems at the end of each chapter These problems explain concepts discussed and stimulate imaginative solutions on the part of the reader A helpful bibliography of supplementary resources for readers who desire more detail has also been included Surfactant Science and Technology Third Edition is an invaluable resource for surface and polymer chemists chemical and industrial engineers and a wide range of chemistry students

Powders and Fibers Michel Nardin, Eugene Papirer, 2006-12-21 New analytical methods have provided further insight into the structure surface characteristics and chemistries of increasingly small particles However current literature offers information on only a limited number of powders

being investigated Written by renowned scientists in the field Powders and Fibers Interfacial Science and Application

Physics of Petroleum Reservoirs Xuetao Hu, Shuyong Hu, Fayang Jin, Su Huang, 2017-08-08 This book introduces in detail the physical and chemical phenomena and processes during petroleum production It covers the properties of reservoir rocks and fluids the related methods of determining these properties the phase behavior of hydrocarbon mixtures the microscopic mechanism of fluids flowing through reservoir rocks and the primary theories and methods of enhancing oil recovery It also involves the up to date progress in these areas It can be used as a reference by researchers and engineers in petroleum engineering and a textbook for students majoring in the area related with petroleum exploitation **Adjuvants for**

Agrichemicals Chester L. Foy, 2018-05-04 Based on a conference this book is intended to promote a better understanding of the effects of adjuvants on pesticide penetration translocation photodegradation and stability spray deposition and dissipation and the fate of herbicides in the environment **Physical Methods of Chemistry, Investigations of Surfaces**

and Interfaces Bryant W. Rossiter, Roger C. Baetzold, 1993-01-12 Each volume of this series heralds profound changes in both the perception and practice of chemistry This edition presents the state of the art of all important methods of instrumental chemical analysis measurement and control Contributions offer introductions together with sufficient detail to give a clear understanding of basic theory and apparatus involved and an appreciation of the value potential and limitations of the respective techniques The emphasis of the subjects treated is on method rather than results thus aiding the investigator in applying the techniques successfully in the laboratory **Encyclopedia of Surface and Colloid Science** P.

Somasundaran, 2006 Surface and Interfacial Science M. C. Rastogi, 2003 This book highlights the changes occurring at surfaces and interfaces involving two or multi phase system due to the interaction between surface atoms molecules and those added either intentionally or inadvertently in form of gases vapours solvents aqueous and nonaqueous and solutions mostly of surface active agents A clear picture of the mechanism involved in industrial processes namely lubrication adhesion wear friction maintenance engineering surface coating metallurgical operation in production of iron and steel corrosion prevention mineral beneficiation including recovery of fine coal from slurries from coal washeries tertiary oil recovery etc are provided **Polymer Biomaterials in Solution, as Interfaces and as Solids** Stuart Cooper, Bamford, Tsuruta, 2014-07-30

The articles collected in this publication have previously been published in eight special issues of the Journal of Biomaterials Science Polymer Edition in honour of Dr Allan S Hoffman who is known as a pioneer a leader and a mentor in the field of biomaterials The papers from renowned scientists from all parts of the world representing the Dynamics of Surfactant Self-Assemblies Raoul Zana, 2005-03-30 Dynamics of Surfactant Self Assemblies explains the dynamics of micellar equilibria tracking surfactant exchange and micelle formation breakdown processes Highlighting the structural similarities of amphiphilic block copolymers to surfactants this volume elucidates the dynamics of more complex self assemblies that surfactants and amphiphilic bl **Calorimetry and Thermal Methods in Catalysis** Aline Auroux, 2013-09-18 The book is

about calorimetry and thermal analysis methods alone or linked to other techniques as applied to the characterization of catalysts supports and adsorbents and to the study of catalytic reactions in various domains air and wastewater treatment clean and renewable energies refining of hydrocarbons green chemistry hydrogen production and storage The book is intended to fill the gap between the basic thermodynamic and kinetics concepts acquired by students during their academic formation and the use of experimental techniques such as thermal analysis and calorimetry to answer practical questions Moreover it supplies insights into the various thermal and calorimetric methods which can be employed in studies aimed at characterizing the physico chemical properties of solid adsorbents supports and catalysts and the processes related to the adsorption desorption phenomena of the reactants and or products of catalytic reactions The book also covers the basic concepts for physico chemical comprehension of the relevant phenomena Thermodynamic and kinetic aspects of the catalytic reactions can be fruitfully investigated by means of thermal analysis and calorimetric methods in order to better understand the sequence of the elemental steps in the catalysed reaction So the fundamental theory behind the various thermal analysis and calorimetric techniques and methods also are illustrated

Interfacial Phenomena in Drug Delivery and Targeting
Graham Buckton, 2000-02-11 Interfaces are of vital importance to many fields of application but the phenomena are hard to visualise and the theories are often linked to complex mathematical models This book the fifth volume in the Drug Targeting and Delivery book series provides students and working scientists with a readable text on interfacial phenomena It does not hide away from the complex issues but addresses the subject in a manner which will make it accessible to the scientist without previous experience of interfacial science The book looks at a wide range of pharmaceutical issues ranging from product development to research linked to in vivo applications

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