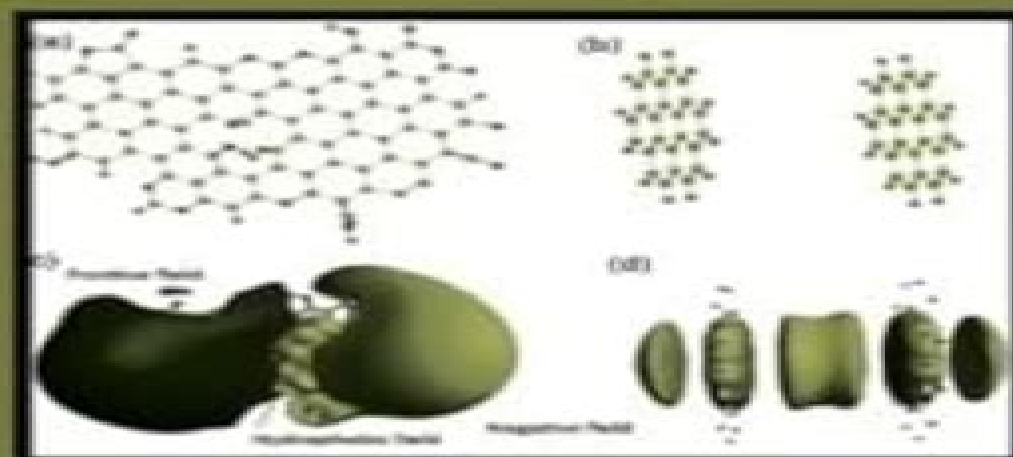


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NUCLEAR MAGNETIC RESONANCE STUDIES OF INTERFACIAL PHENOMENA



Vladimir M. Gun'ko • Vladimir V. Turov



CRC Press
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Nuclear Magnetic Resonance Studies Of Interfacial Phenomena Surfactant Science

Durdica Tezak, Mladen Martinis



Nuclear Magnetic Resonance Studies Of Interfacial Phenomena Surfactant Science:

Nuclear Magnetic Resonance Studies of Interfacial Phenomena Vladimir M. Gun'ko, Vladimir V. Turov, 2013-04-08 Properties and applications of high surface area materials depend on interfacial phenomena including diffusion sorption dissolution solvation surface reactions catalysis and phase transitions Among the physicochemical methods that give useful information regarding these complex phenomena nuclear magnetic resonance NMR spectroscopy is the most universal yielding detailed structural data regarding molecules solids and interfaces Nuclear Magnetic Resonance Studies of Interfacial Phenomena summarizes NMR research results collected over the past three decades for a wide range of materials from nanomaterials and nanocomposites to biomaterials cells tissues and seeds This book describes the applications of important new NMR spectroscopic methods to a variety of useful materials and compares them with results from other techniques such as adsorption differential scanning calorimetry thermally stimulated depolarization current dielectric relaxation spectroscopy infrared spectroscopy optical microscopy and small angle and wide angle x ray scattering The text explores the application of NMR spectroscopy to examine interfacial phenomena in objects of increasing complexity beginning with unmodified and modified silica materials It then describes properties of various mixed oxides with comparisons to individual oxides and also describes carbon materials such as graphite and carbon nanotubes Chapters deal with carbon mineral hybrids and their mosaic surface structures and interfacial phenomena at the surface of natural and synthetic polymers They also explore a variety of biosystems which are much more complex including biomacromolecules proteins DNA and lipids cells and tissues and seeds and herbs The authors cover trends in interfacial phenomena investigations and the final chapter describes NMR and other methods used in the book This text presents a comprehensive description of a large array of hard and soft materials allowing the analysis of the structure property relationships and generalities on the interfacial behavior of materials and adsorbates

Nuclear Magnetic Resonance Studies of Interfacial Phenomena Vladimir M. Gun'ko, Vladimir V. Turov, 2013-04-08 Properties and applications of high surface area materials depend on interfacial phenomena including diffusion sorption dissolution solvation surface reactions catalysis and phase transitions Among the physicochemical methods that give useful information regarding these complex phenomena nuclear magnetic resonance NMR spectroscopy is the

Interfacial Chemistry of Rocks and Soils Noémi M. Nagy, József Kónya, 2021-10-27 Knowledge of the basic interactions that take place between geological materials and different substances is the first step in understanding the effects of adsorption and other interfacial processes on the quality of rocks and soils and on driving these processes towards a beneficial or neutral result Interfacial Chemistry of Rocks and Soils examines the different processes at solid and liquid interfaces of soil and rock presenting a complete analysis that emphasizes the importance of chemical species on these interactions This Second Edition features novel results in the field and expanded coverage of the kinetics of interfacial processes New content includes models of heterogeneous isotope exchange sorption

isotherms for heterovalent cation exchange as well as sorption of anions by chemically modified clays Summarizing the results and knowledge of the authors research in this field over several decades this volume Explores the individual components of the studied systems the solid the solution and the interface Discusses the characteristics and thermodynamics of the interface Profiles the most important analytical methods in the study of interfacial processes Demonstrates transformations initiated by interfacial processes Outlines avenues of treatment that may solve geological soil science and environmental problems Drawn chiefly from the authors years of research at the Imre Lajos Isotope Laboratory in the Department of Physical Chemistry at the University of Debrecen in Hungary this book discusses chemical reactions on the surfaces interfaces of soils and rocks examines the role of these processes in environmental colloid and geochemistry and explores the effects on agricultural environmental and industrial applications

Wetting and Spreading Dynamics, Second Edition Victor M. Starov, Manuel G. Velarde, 2019-07-02 Wetting and Spreading Dynamics explains how surface forces acting at the three phase contact line determine equilibrium hysteresis contact angles and other equilibrium and kinetics features of liquids when in contact with solids or with other immiscible liquids It examines the interaction of surface forces capillary forces and properties of the transition zone between the bulk liquid and solid substrate Significantly revised and updated the Second Edition features new chapters that cover spreading of non Newtonian liquids over porous substrates hysteresis of contact angles on smooth homogeneous substrates equilibrium and hysteresis contact angles on deformable substrates and kinetics of simultaneous spreading and evaporation Drawing together theory and experimental data while presenting over 150 figures to illustrate the concepts Wetting and Spreading Dynamics Second Edition is a valuable resource written for both newcomers and experienced researchers

The Science of Defoaming Peter R. Garrett, 2016-04-19 In the 20 years since the publication of the author s multi contributor volume on defoaming a vast amount of new work has been published and many new insights have been revealed A cohesive single authored book The Science of Defoaming Theory Experiment and Applications provides comprehensive coverage of the topic It describes the mode of act

Siloxane-Based Polymers Ignazio Blanco, 2019-07-11 This book a collection of 12 original contributions and 4 reviews provides a selection of the most recent advances in the preparation characterization and applications of polymeric nanocomposites comprising nanoparticles The concept of nanoparticle reinforced polymers came about three decades ago following the outstanding discovery of fullerenes and carbon nanotubes One of the main ideas behind this approach is to improve the matrix mechanical performance The nanoparticles exhibit higher specific surface area surface energy and density compared to microparticles and hence lower nanofiller concentrations are needed to attain properties comparable to or even better than those obtained by conventional microfiller loadings which facilitates processing and minimizes the increase in composite weight The addition of nanoparticles into different polymer matrices opens up an important research area in the field of composite materials Moreover many different types of inorganic nanoparticles such as quantum dots metal oxides and ceramic and metallic

nanoparticles have been incorporated into polymers for their application in a wide range of fields ranging from medicine to photovoltaics packaging and structural applications

Surface Tension and Related Thermodynamic Quantities of Aqueous Electrolyte Solutions Norihiro Matubayasi, 2013-09-09 Surface tension provides a thermodynamic avenue for analyzing systems in equilibrium and formulating phenomenological explanations for the behavior of constituent molecules in the surface region While there are extensive experimental observations and established ideas regarding desorption of ions from the surfaces of aqueous salt solutions a more successful discussion of the theory has recently emerged which allows the quantitative calculation of the distribution of ions in the surface region *Surface Tension and Related Thermodynamic Quantities of Aqueous Electrolyte Solutions* provides a detailed and systematic analysis of the properties of ions at the air water interface Unifying older and newer theories and measurements this book emphasizes the contributions of simple ions to surface tension behavior and the practical consequences It begins with a general discussion on Gibbs surface thermodynamics offering a guide to his theoretical insight and formulation of the boundary between fluids The text then discusses the thermodynamic formulae that are useful for practical experimental work in the analysis of fluid fluid interfaces Chapters cover surface tension of pure water at air water and air oil interfaces surface tension of solutions and the thermodynamic quantities associated with the adsorption and desorption of solutes and surface tension of simple salt solutions They also address adsorption of ions at the air water interface surface tension of solutions and the effect of temperature adsorption from mixed electrolyte solutions and thermodynamic properties of zwitterionic amino acids in the surface region Focusing on the thermodynamic properties of ions at air fluid interfaces this book gives scientists a quantitative rigorous and objectively experimental methodology they can employ in their research

Silicone Dispersions Yihan Liu, 2017-01-06 Silicone is an important class of materials used in applications that range from industrial assembly to everyday consumer products Silicones are often delivered and synthesized in dispersion forms the most common being liquid in liquid emulsion solid in liquid suspension air in liquid foam and solid in air powder This book compiles a carefully selected number of topics that are essential to the understanding creative design and production of silicone dispersions As such it provides the first unified description of silicone dispersions in the literature

Annual Reports on NMR Spectroscopy Graham A. Webb, 2002-11 Nuclear magnetic resonance NMR is an analytical tool used by chemists and physicists to study the structure and dynamics of molecules In recent years no other technique has grown to such importance as NMR spectroscopy It is used in all branches of science where precise structural determination is required and where the nature of interactions and reactions in solution is being studied *Annual Reports on NMR Spectroscopy* has established itself as a means for the specialist and nonspecialist alike to become familiar with new applications of NMR spectroscopy in all branches of chemistry Volume 48 carried on the tradition with contributions on dynamics of polymers from one and two dimensional solid state NMR spectroscopy NMR spectroscopy of large proteins accurate diagnosis and prognosis of human cancers by protein MRS

and a three stage classification strategy NMR determination of porous media property distributions and NMR studies of micelles

Soil Colloids Fernando V. Molina, 2016-04-19 Within the field of soil science soil chemistry encompasses the different chemical processes that take place including mineral weathering humification of organic plant residues and ionic reactions involving natural and foreign metal ions that play significant roles in soil Chemical reactions occur both in the soil solution and at the soil part

Electromagnetic, Mechanical, and Transport Properties of Composite Materials Rajinder Pal, 2014-08-27 In the design processing and applications of composite materials a thorough understanding of the physical properties is required It is important to be able to predict the variations of these properties with the kind shape and concentration of filler materials The currently available books on composite materials often emphasize mechanical properties and focus on classification applications and manufacturing This limited coverage neglects areas that are important to new and emerging applications For the first time in a single source this volume provides a systematic comprehensive and up to date exploration of the electromagnetic electrical dielectric and magnetic mechanical thermal and mass transport properties of composite materials The author begins with a brief discussion of the relevance of these properties for designing new materials to meet specific practical requirements The book is then organized into five parts examining The electromagnetic properties of composite materials subjected to time invariant electric and magnetic fields The dynamic electromagnetic properties of composite materials subjected to time varying electric and magnetic fields The mechanical elastic and viscoelastic properties of composites Heat transfer in composites and thermal properties thermal conductivity thermal diffusivity coefficient of thermal expansion and thermal emissivity Mass transfer in composite membranes and composite materials Throughout the book the analogy between various properties is emphasized Electromagnetic Mechanical and Transport Properties of Composite Materials provides both an introduction to the subject for newcomers and sufficient in depth coverage for those involved in research Scientists engineers and students from a broad range of fields will find this book a comprehensive source of information

Nuclear Magnetic Resonance Studies of Xenon Dissolved in Solute-solvent Mixtures, Micelles and Lipid Bilayers Saeed Mohseni-Hosseini, 1987

Encyclopedia of Surface and Colloid Science P. Somasundaran, 2006

Surfactants in Solution K.L. Mittal, P. Botherel, 2013-03-09 This and its companion Volumes 4 and 6 document the proceedings of the 5th International Symposium on Surfactants in Solution held in Bordeaux France July 9 13 1984 This symposium was the continuation of the series of symposia initiated in 1976 in Albany New York under the title Micellization Solubilization and Microemulsions The next two symposia were labelled Solution Chemistry of Surfactants and Solution Behavior of Surfactants Theoretical and Applied Aspects held in Knoxville TN in 1978 and Potsdam N Y in 1980 respectively In 1982 at the time of the 4th Symposium in this series it became amply evident that there was a definite need to have more a generic title to describe these biennial events and after much deliberation it was decided that an appropriate title would be Surfactants in Solution as both the aggregation and adsorption aspects of

surfactants were addressed So the 4th Symposium was held in 1982 in Lund Sweden under this new rubric and it was decided to continue these symposia in the future under this appellation Naturally the Bordeaux Symposium was dubbed as the 5th International Symposium on Surfactants in Solution and our logo became SIS which is very apropos and appealing It was in Bordeaux that the decision was made to hold the 6th SIS Symposium in New Delhi and it is scheduled for August 18 22 1986 in the capital of India Encyclopedia of Surface and Colloid Science - Arthur T. Hubbard,2002-07-18 This

comprehensive reference collects fundamental theories and recent research from a wide range of fields including biology biochemistry physics applied mathematics and computer materials surface and colloid science providing key references tools and analytical techniques for practical applications in industrial agricultural and forensic processes as well as in the production of natural and synthetic compounds such as foods minerals paints proteins pharmaceuticals polymers and soaps

Energy Research Abstracts ,1985 **Trends in Colloid and Interface Science XIII** Durdica Tezak,Mladen

Martinis,2003-07-01 This volume includes a number of selected papers of the 12th Conference of the European Colloid and Interface Society held in September 1998 in Dubrovnik and Cavtat Croatia The topics included are Amphiphiles Monolayers and Micelles Solutions and Suspensions Emulsions and Microemulsions Polymers Interfaces and Experimental techniques

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Directory of Research in Chemistry at Primarily Undergraduate Institutions ,1989 A directory of chemistry department information for **Lipids and Edible Oils** Charis M. Galanakis,2019-10-05 Lipids and Edible Oils Properties Processing and Applications covers the most relevant topics of lipids and edible oils especially their properties processing and applications Over the last years researchers have investigated lipid bioavailability authentication stability and oxidation during processing and storage hence the development of food and non food applications of lipids and edible oils has attracted great interest The book explores lipid oxidation in foods the application of lipids as nano carriers of food bioactive compounds and their bioavailability metabolism and nutritional genomics Regarding edible oils the book thoroughly explores their triacylglycerols content biodiesel and energy production from vegetable oils refining and lifecycle assessment Written

by a team of interdisciplinary experts that research lipids and edible oils the book is intended for food scientists technologists engineers and chemists working in the whole food science field Thoroughly explores the technological properties of lipids and edible oils Includes food processing by products and microalgae as a source of lipids and edible oils Reviews novelties in edible oil products and processing including refining techniques biorefinery and value creation processing waste

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In some sort of defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Nuclear Magnetic Resonance Studies Of Interfacial Phenomena Surfactant Science**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve in to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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