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3-1 CHAPTER 3: SURFACE AND
INTERFACIAL TENSION Objective To
measure surface tension using both, the
DuNouy ring and the capillary tube
methods. Introduction In a fluid system,
the presence of two or more phases may
be observed because of interfaces between

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Tension components. This happens only if the fluids are immiscible (oil/water, water/air, oil/gas). Figure 3-1 is a sketch of forces occurring ...

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This chapter discusses surface and interfacial recombination in semiconductors. If a semiconductor surface has defects such as vacancies, it

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Tension creates dangling bonds. These vacancies have energies in...

Chapter 3. Surface and Interfacial
Recombination in ...

All types of surfaces can be characterized by surface and interfacial tensions, which are key concepts in surface chemistry.

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Tension They are of relevance to many products and processes in colloid science, e.g. they are very important in understanding wetting, spreading, lubrication and adhesion phenomena.

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and Yongli Gao.

This book is the premier text on the
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two editions). * Clearly explains the mechanisms by which surfactants operate in interfacial processes * Uses a minimum of mathematics in explanation of topics, making it easy-to-understand and very user-friendly * Problems are included at the end of each chapter * Includes many tables of data as reference that are not

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Compiled elsewhere * Milton J Rosen is an expert in the field of Surfactant research

Chemistry of Functional Materials
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account of interfacial phenomena step-by-
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Tension readers with a strong foundation of knowledge in interfacial materials chemistry. Many case studies are provided to give real-world examples of problems and their solutions, allowing readers to make the connection between fundamental understanding and applications. Emerging applications in

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Tension basic understanding of the common tools of surface and interface chemistry for application in materials science and nanotechnology. This book is suitable for researchers and practitioners in the disciplines of materials science and engineering and surface and interface chemistry. Includes numerous real-world

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Examples and case studies throughout
Addresses emerging applications of
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surface and interfacial science with
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Tension This edited volume offers complete coverage of the latest theoretical, experimental, and computer-based data as summarized by leading international researchers. It promotes full understanding of the physical phenomena and mechanisms at work in surface and interfacial tensions and gradients, their

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Tension direct impact on interface shape and movement, and their significance to numerous applications. Assessing methods for the accurate measurement of surface tension, interfacial tension, and contact angles, Surface and Interfacial Tension presents modern simulations of complex interfacial motions, such as bubble motion

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as an introduction for newcomers.

A general introduction to surface and interfacial forces, perfectly combining theoretical concepts, experimental techniques and practical applications. In this completely updated edition all the chapters have been thoroughly revised and

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Tension extended to cover new developments and approaches with around 15% new content. A large part of the book is devoted to surface forces between solid surfaces in liquid media, and while a basic knowledge of colloid and interface science is helpful, it is not essential since all important concepts are explained and the

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Theoretical concepts can be understood with an intermediate knowledge of mathematics. A number of exercises with solutions and the end-of-chapter summaries of the most important equations, facts and phenomena serve as additional tools to strengthen the acquired knowledge and allow for self-study. The

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Tension is a readily accessible text that helps to foster an understanding of the intricacies of this highly relevant topic.

Colloid and Surface Chemistry is a subject of immense importance and implications both to our everyday life and numerous industrial sectors, ranging from coatings

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Tension

and materials to medicine and biotechnology. How do detergents really clean? (Why can't we just use water?) Why is milk "milky"? Why do we use eggs so often for making sauces? Can we deliver drugs in better and controlled ways? Coating industries wish to manufacture improved coatings e.g. for providing

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Tension resistance, which are also environmentally friendly i.e. less based on organic solvents and if possible exclusively on water. Food companies want to develop healthy, tasty but also long-lasting food products which appeal to the environmental authorities and the consumer. Detergent and enzyme

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Companies are working to develop improved formulations which clean more persistent stains, at lower temperatures and amounts, to the benefit of both the environment and our pocket. Cosmetics is also big business! Creams, lotions and other personal care products are really just complex emulsions. All of the above can

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be explained by the principles and methods of colloid and surface chemistry. A course on this topic is truly valuable to chemists, chemical engineers, biologists, material and food scientists and many more.

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Volume 10: Surface and Interface Effects in VLSI provides the advances made in the science of semiconductor surface and interface as they relate to electronics. This volume aims to provide a better understanding and control of surface and interface related properties. The book begins with an introductory chapter on the

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Intimate link between interfaces and devices. The book is then divided into two parts. The first part covers the chemical and geometric structures of prototypical VLSI interfaces. Subjects detailed include, the technologically most important interface, Si-SiO₂ and the interplay between interface chemistry and the

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Tension causes for metal-semiconductor contact behavior, primarily in the III-Vs. The following section deals primarily with the electronic properties of interfaces. Under this section, compound semiconductors, semiconductor-semiconductor interface, constraints that the microscopic interface places on architectures involving metal-

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semiconductor (MESFET), "Ohmic" contacts, and the behavior of very small, high-speed devices are discussed extensively. The final chapter shows that the Si - SiO₂ interface can play a major role in determining carrier transport when MOSFETS are scaled down to ULSI dimensions. Engineers, designers, and

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scientists will find the book very useful.

Surface and Interface Chemistry of Clay Minerals, Volume 9, delivers a fundamental understanding of the surface and interface chemistry of clay minerals, thus serving as a valuable resource for researchers active in the fields of materials

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chemistry and sustainable chemistry. Clay minerals, with surfaces ranging from hydrophilic, to hydrophobic, are widely studied and used as adsorbents.

Adsorption can occur at the edges and surfaces of clay mineral layers and particles, and in the interlayer region. This diversity in properties and the possibility to

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tune the surface properties of clay minerals to match the properties of adsorbed molecules is the basis for study. This book requires a fundamental understanding of the surface and interface chemistry of clay minerals, and of the interaction between adsorbate and adsorbent. It is an essential resource for clay scientists, geologists,

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Chemists, physicists, material scientists, researchers, and students. Presents scientists and engineers with a resource they can rely on for their own research and work involving clay minerals Includes an in-depth look at ion exchange, adsorption of inorganic and organic molecules, including polymers and

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Tension, and catalysis occurring at the surfaces of clay minerals Includes materials chemistry of clay minerals with chiral clay minerals, optical materials and functional films

This handbook brings together, under a single cover, all aspects of the chemistry,

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Physics, and engineering of surfaces and interfaces of materials currently studied in academic and industrial research. It covers different experimental and theoretical aspects of surfaces and interfaces, their physical properties, and spectroscopic techniques that have been applied to a wide class of inorganic, organic, polymer,

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and biological materials. The diversified technological areas of surface science reflect the explosion of scientific information on surfaces and interfaces of materials and their spectroscopic characterization. The large volume of experimental data on chemistry, physics, and engineering aspects of materials

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Tension surfaces and interfaces remains scattered in so many different periodicals, therefore this handbook compilation is needed. The information presented in this multivolume reference draws on two decades of pioneering research on the surfaces and interfaces of materials to offer a complete perspective on the topic. These five

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Technological developments made over past decades in surfaces and interfaces of materials and spectroscopic techniques with contributions from internationally recognized experts from all over the world. Fully cross-referenced, this book has clear, precise, and wide appeal as an essential reference source long due for the scientific

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Tension Solving was based on the authors' firm belief that characterization and analysis of surfaces should be conducted in the context of problem solving and not be based on the capabilities of any individual technique. Now, a decade later, trends in science and technology appear

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