



Soft Interfaces

**Lydéric Bocquet, David Quéré, Thomas
A. Witten, Leticia F. Cugliandolo**



Soft Interfaces:

Soft Interfaces Lydéric Bocquet, David Quéré, Thomas A. Witten, Leticia F. Cugliandolo, 2017-09-22 Many of the distinctive and useful phenomena of soft matter come from its interaction with interfaces Examples are the peeling of a strip of adhesive tape the coating of a surface the curling of a fiber via capillary forces or the collapse of a porous sponge These interfacial phenomena are distinct from the intrinsic behavior of a soft material like a gel or a microemulsion Yet many forms of interfacial phenomena can be understood via common principles valid for many forms of soft matter Our goal in organizing this school was to give students a grasp of these common principles and their many ramifications and possibilities The Les Houches Summer School comprised over fifty 90 minute lectures over four weeks Four four lecture courses by Howard Stone Michael Cates David Nelson and L Mahadevan served as an anchor for the program A number of shorter courses and seminars rounded out the school This volume collects the lecture notes of the school Fundamentals of Soft Interfaces in Colloid and Surface Chemistry Hiroyuki Ohshima, 2024-09-10 This book explains and summarizes the fundamentals of soft interfaces and soft particles from a colloid and surface chemistry standpoint bringing knowledge together into a single resource for the first time It provides detailed mathematical description of colloidal and interfacial systems with a particular emphasis on ionic electrokinetic and electrostatic phenomena Hiroyuki Ohshima covers the most recent theoretical advances in the field of electrostatic interactions between soft interfaces electrophoresis diffusiophoresis gel electrophoresis of soft particles including ionic size effects ion partitioning effects and the effects of hydrodynamic slip on hydrophobic surfaces It will help readers by providing a range of approximate analytic formulas which can be used to interpret various interfacial phenomena of soft interfaces and analyze experimental data in various fields Fundamentals of Soft Interfaces in Colloid and Surface Chemistry is written for graduate students and researchers chiefly in chemistry but also chemical engineering physics and materials science Utilizes rigorous theories and the various useful approximate analytical formulas based upon them Describes basic theories for various electrostatic and electrokinetic phenomena of soft interfaces Provides many formulas used to interpret and analyze experimental data of soft interfaces Molecular Soft-Interface Science Mizuo Maeda, Atsushi Takahara, Hiromi Kitano, Tetsuji Yamaoka, Yoshiko Miura, 2019-05-09 This book offers a comprehensive treatment of the molecular design characterization and physical chemistry of soft interfaces At the same time the book aims to encourage the fabrication of functional materials including biomaterials During the past few decades there has been steady growth in soft interface science and that growth has been especially rapid in the twenty first century The field is interdisciplinary because it involves chemistry polymer science materials science physical chemistry and biology Based on the increasing interdisciplinary nature of undergraduate and graduate programs the primary goal of this present work is to serve as a comprehensive resource for senior level undergraduates and for graduate students particularly in polymer chemistry materials science bioconjugate chemistry bioengineering and biomaterials Additionally with the growing interest

in the fabrication of functional soft materials this book provides essential fundamental information for researchers not only in academia but also in industry **Soft Interfaces** Lydéric Bocquet, David Quéré, Thomas A. Witten, Leticia F.

Cugliandolo, 2017 Many of the distinctive and useful phenomena of soft matter come from its interaction with interfaces Examples are the peeling of a strip of adhesive tape or the coating of a surface or the curling of a fibre via capillary forces or the electrically driven flow along a microchannel or the collapse of a porous sponge These interfacial phenomena are distinct from the intrinsic behaviour of a soft material like a gel or a microemulsion Yet many forms of interfacial phenomena can be understood via common principles valid for many forms of soft matter Our goal in organizing this school was to give students a grasp of these common principles and their many ramifications and possibilities **Soft Interfaces** Lydéric

Bocquet, David Quéré, Thomas A. Witten, Leticia F. Cugliandolo, 2017 This volume is an introduction to interfacial phenomena It collects the lecture notes from a one month Summer school in Les Houches The courses and the notes are intended to be especially useful for master and PhD students as well as young researchers *Engineering and Manufacturing Technologies*

HJ. Patthi bin Hussain, Yue Sheng Zhu, Murthy Rallapalli, Jamaluddin Mahmud, 2014-03-12 Selected peer reviewed papers from the 2014 5th International Conference on Mechanical Industrial and Manufacturing Technologies MIMT 2014 March 10 11 2014 Penang Malaysia *Advances in Anisotropy* Julie A. Hood, 2001 Investigations of Thin-film Surfaces and

Interfaces Using Synchrotron-generated Soft X-rays Zhiwei Li, 2007 Probing Surfaces and Buried Interfaces by Core-level Photoemission Excited by Soft X-ray Standing Waves Bongjin Simon Mun, 2001 Mechanical Properties of Soft Interfaces

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in Extreme Environments: Volume 929 Daryush Ila, Christian Mailhot, Premkumar B. Saganti, 2006-09-15 This book investigates the fundamental properties and response of materials in extreme environments such as static and dynamic high pressure high strain and high strain rates high radiation and electromagnetic fields high and low temperatures corrosive conditions environments causing embrittlement and environments containing atomic oxygen This is an extremely active and vibrant field of research in particular because it is now possible to create laboratory conditions similar in pressure temperature and radiation to those found in planetary interiors and in space In addition advanced simulation methods coupled with high performance computing platforms now afford predictions on a first principles basis of the properties of materials in extreme environments Scientists from a broad spectrum of fields are represented including space science planetary science high pressure research shock physics ultrafast science and energetic materials research

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