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Physical Chemistry and Acid-Base Properties of Surfaces

**Jean-Charles Joud
Marie-Geneviève Barthés-Labrousse**

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Physical Chemistry Acid Base Properties Surfaces

S.R. Morrison



Physical Chemistry Acid Base Properties Surfaces:

Physical Chemistry and Acid-Base Properties of Surfaces Jean-Charles Joud, Marie-Geneviève

Barthés-Labrousse, 2015-11-04 The first part of this book looks at the consequence of chemical and topological defects existing on real surfaces which explain the wettability of super hydrophilic and super hydrophobic surfaces There follows an in depth analysis of the acid basicity of surfaces with as an illustration different wettability experiments on real materials The next chapter deals with various techniques enabling the measurement of acid basicity of the surfaces including IR and XPS technics The last part of the book presents an electrochemical point of view which explains the surface charges of the oxide at contact with water or other electrolyte solutions in the frame of Bronsted acid basicity concept Various consequences are deduced from such analyses illustrated by original measurement of the point of zero charge or by understanding the basic principles of the electrowetting experiments *The Chemical Physics of Surfaces* S.

Morrison, 2012-12-06 At the present stage of development of surface science there has seemed to be a need for a book length review spanning the disciplines of surface physics and surface chemistry a review to summarize and show the connection between the observations from each discipline The various results and theories derived on the one hand from studies of the physical electronic and optical properties of surfaces and on the other hand from studies of the chemical activity of surfaces supplement each other in the search for a realistic model of the surface The improved understanding possible with such an interdisciplinary approach has been confirmed by recent developments which cannot be classified as either surface chemistry or surface physics Specifically recent new experimental techniques and quantum mechanical models have provided a much more accurate picture of the nature of the electronic energy levels bonding orbitals present at a solid surface With this more accurate picture we are now able to reconcile the various chemical and physical models that appeared in the early literature on surfaces The objective of this work has therefore been to describe the results and current models of surface science spanning a broad gray area between surface physics and surface chemistry with some overlap into each of these disciplines Relevant aspects of surface chemistry are discussed we cover chemical interactions where bonding and electronic properties dominate but stop short of specialized topics such as surfactants or liquid liquid interfaces **The**

Chemical Physics of Surfaces S.R. Morrison, 2013-06-29 of available information Even more importantly some authors who have contributed substantially to an area may have been overlooked For this I apologize I have however not attempted to trace techniques or observations historically so there is no implication unless specified that the authors referred to were or were not the originators of a given method or observation I would like to acknowledge discussions with co workers at SFU for input relative to their specialties to acknowledge the help of students who have pointed out errors and difficulties in the earlier presentation and to acknowledge the infinite patience of my wife Phyllis while I spent my sabbatical and more in libraries and punching computers S Roy Morrison 0 1 Contents Notation XV 1 Introduction 1 1 1 Surface States and Surface

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 Relaxation Reconstruction and Relocation *Physics and Chemistry at Oxide Surfaces* Claudine Noguera,1996-09-28 The
 first chapter of the book summarizes classical approaches introduces the concept of ionicity and describes the mixed ionic
 covalent character of the oxygen cation bond in bulk materials The next three chapters focus on the characteristics of the
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