

Fundamentals of GAS-SURFACE INTERACTIONS

EDITED BY

H. SALTSBURG, J. N. SMITH, JR. and M. ROGERS



Fundamentals Of Gas Surface Interactions

Yicheng Fang



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Fundamentals of Gas-Surface Interactions Howard Saltsburg, Joe N. Smith, Milton Rogers, 2013-10-22 *Fundamentals of Gas Surface Interactions* presents the study of the surface itself and the study of the gas phase partner of the interaction in which physical or chemical transformation of the gas resulted from that interaction This book discusses the study of the energy and momentum exchanges resulting from the gas solid physical interaction in which either gas or solid phase properties can be measured Organized into three parts encompassing 33 chapters this book begins with an overview of the different sensitive physical methods for the study of surface topography surface defects and surface irregularities to an accuracy of a few Angstroms This text then reviews the adsorption at very low coverage that has yielded to equilibrium analysis Other chapters consider the measurement of surface area by adsorption and optical techniques The final chapter deals with scattering processes including momentum and energy transfer This book is a valuable resource for engineers

Fundamentals of Gas-surface Interactions United States, **Fundamentals of Gas-surface Interactions** Howard Saltsburg, Joe N. Smith, Milton Rogers, 1967 **Fundamentals of Gas-Surface Interactions** Howard Saltsburg, 1967

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Experimental Investigation of Gas-surface Re-emission Distributions Using Continuum Source Molecular Beam Techniques Karl Jakus,1968 **NASA Technical Note** ,1972 *Technical Abstract Bulletin* , OAR ,1967 **Air Force Research Resumés** , *Astronautical Research* 1971 L.G. Napolitano,P. Contensou,W.F. Hilton,2012-12-06

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Dynamics of Gas-Surface Interaction Giorgio Benedek,U. Valbusa,2012-12-06 In recent decades surface science has experienced a large growth in connection with the development of various experimental techniques which are able to characterize solid surfaces through the observation of the scattering of ions electrons photons or atoms These methods of investigation known under different labels such as LEED AES XPS UPS etc have been extensively applied in describing the structure morphology and chemical and physical properties of crystal surfaces and interfaces of a large variety of materials of interest in solid state physics electronics metallurgy biophysics and heterogeneous catalysis Among these methods we wish to emphasize molecular beam scattering from solid surfaces

molecular beam scattering has gone through a large development in the last ten years In this decade a large number of laboratories have used this method to study various clean and adsorbate covered surfaces The technique is nonetheless quite old It dates back to the beginning of the thirties when Estermann and Stern performed the first atom diffraction experiment proving the wave nature of atoms In the following years the entire subject of gas surface interaction was considered a branch of rarefied gas dynamics and developed in connection with aerospace research Attention was then given to the integral properties of gas solid interactions sticking and energy accommodation mean momentum transfer rather than to atom surface scattering from well characterized surfaces

OAR Cumulative Index of Research Results ,1967

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