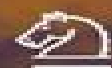


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# Surface and Interface Analysis

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It emphasizes problem solving for different classes of materials and material function      *Chemistry and Physics of Solid Surfaces*, 1984      **Interfacial Electrochemistry** Wolfgang Schmickler, 1996-02-29 Electrochemistry is the study of a special class of interfaces those between an ionic and an electronic conductor that can conduct current This makes it especially important to research and for industrial applications such as semiconductors This book examines different topics within interfacial electrochemistry including the theory of structures and processes at metal solution and semiconductor solution interfaces the principles of classical and modern experimental methods and some of the applications of electrochemistry Students and nonspecialists in materials science surface science and chemistry will find this a valuable source of information      **Surface Analysis by Electron Spectroscopy** Graham C. Smith, 2013-11-21 This book is the fifth in a series of scientific textbooks designed to cover advances in selected research fields from a basic and general viewpoint The reader is taken carefully but rapidly through the introductory material in order that the significance of recent developments can be understood with only limited initial knowledge The inclusion in the Appendix of the abstracts of many of the more important papers in the field provides further assistance for the non specialist and acts as a springboard to supplementary reading for those who wish to consult the original literature Surface analysis has been the subject of numerous books and review articles and the fundamental scientific principles of the more popular techniques are now reasonably well established This book is concerned with the very powerful techniques of Auger electron and X ray photoelectron spectroscopy AES and XPS with an emphasis on how they may be performed as part of a modern analytical facility Since the development of AES and XPS in the late 1960s and early 1970s there have been great strides forward in the sensitivities and resolutions of the instrumentation Simultaneously these spectroscopies have undergone a veritable explosion both in their acceptance alongside more routine analytical techniques and in the range of problems and materials to which they are applied As a result many researchers in industry and in academia now come into contact with AES and XPS not as specialists but as users

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**Chemistry and Physics of Solid Surfaces VIII** Ralf Vanselow, Russell Howe, 1990-09-06 The Chemistry and Physics of Solid Surfaces volumes present selected review articles mainly in the area of the solid gas interface These articles are written by internationally recognized experts who are invited speakers at the International Summer Institute in Surface Science Volume VII includes among others the following topics Inert Gas Layers on Metal Surfaces Infrared Spectroscopy of Semiconductor Surfaces Critical Phenomena of Chemisorbed Atoms NEXAFS and SEXAFS Surface Reconstruction Scanning Tunnelling Microscopy Fractals in Surface Science Growth Kinetics in Molecular Beam Epitaxy It is the purpose of these volumes to bring researchers in academia and industry up to date and to bridge the gap between conventional textbooks and specialized surface science conference proceedings The volumes provide extensive references to the literature and each includes a detailed subject index

**Springer Series in Surface Sciences** Ralf W. Vanselow (Chemist, Germany, United States), 1986

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