



Surface Science: Foundations of Catalysis and Nanoscience

Kurt W. Kolasinski

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Surface Chemistry is an essential and developing area of physical chemistry and one that has become increasingly multidisciplinary. Surface Science: Foundations of Catalysis and Nanoscience offers a comprehensive, modern introduction to the subject, taking a truly pedagogical approach. This text will provide the reader with a well-rounded understanding, not only of how chemistry works at surfaces, but also how to understand and probe the dynamics of surface reactions. Starting with an examination of the importance of heterogeneous reactions, it lays the foundations for an understanding of chemical reactions at surfaces through a detailed treatment of surface electronic and geometric structure. Reactivity on and with surfaces is clearly explained. Fundamental principles such as adsorption, desorption and reactions between adsorbates are examined, with extensive coverage of developments in the growth of epitaxial, and Langmuir-Blodgett films, as well as treatment of the etching of surfaces. Surface Science: Foundations of Catalysis and Nanoscience: Features a modern molecular view of surfaces combined with a careful pedagogic approach to chemical reaction dynamics. Introduces both theoretical and experimental techniques including a detailed explanation of growth and etching. Includes numerous examples of the relevance of surface chemistry to industrial processes combined with end of chapter problems and an extensive bibliography. Suitable for all students taking courses in surface chemistry in departments of chemistry, physics, chemical engineering and material science, as well as researchers and professionals needing an up to date review of the subject.

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