



The Chemical Physics of Solid Surfaces

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Although there has been a tremendous development of new techniques to facilitate the study of well-characterized surfaces, there remains a dearth of publications devoted to the application of these methods. This is particularly true in the case of multi-technique studies, directed to understanding key aspects of surface chemistry and physics. This series of books sets out to rectify this state of affairs by providing reviews which concentrate on the scientific achievements in terms of new understanding of the chemical physics of surfaces, rather than the methodology. Since the earlier volumes have appeared, there has been an increasing shift of emphasis to these multi-faceted approaches to understanding surface chemical problems, which makes the series even more appropriate to the needs of the research community. This volume provides clear evidence of this growth. In the specific area of application of heterogeneous catalysis, substantial progress is being made in confronting problems of increasing complexity, such as those associated with coadsorption, promoters and poisons, which form the subject matter of this book. This progress is reflected in sophisticated theoretical calculations as well as experiments, and both areas are covered in chapters which are written by experts in the field. Specific problems covered include the effect of promoters (especially alkali metals) and poisons in CO, water and hydrogen surface chemistry, including Fischer-Tropsch and water-gas shift reactions, and in ammonia synthesis. In addition, two chapters are devoted to different aspects of alloy surface chemistry (bulk alloys and thin overlayer films), while one further synergistic effect concerns the so-called strong metal support interaction. In all cases, connections are made to the related catalyst studies, although the emphasis is on the achievements of the model investigations of well-characterized surfaces. This book should be of interest to the many researchers in the field of surface science (coming from backgrounds in chemistry, physics and materials science), as well as to those interested in heterogeneous catalysis.

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