



Many - Body Phenomena At Surfaces

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Many-Body Phenomena at Surfaces contains the proceedings of a two-week 1983 Workshop on Many-Body Phenomena at Surfaces sponsored by the Institute for Theoretical Physics, University of California, Santa Barbara. This workshop covers the many-body phenomena and the many-particle aspects of structural phenomena.

This text is organized into six parts encompassing 29 chapters, and begins with a description of the method generally used to calculate ground state properties, densities, equilibrium positions, adiabatic potential curves, and energies of surfaces with and without an adsorbate atom or molecule. It goes on to apply these methods to binding and the calculation of potential surfaces, followed by a more diffuse section on various spectroscopies. Topics here include the experiments that elucidate the dynamic phenomena and the theoretical description, which is of relevance to dynamics. The next section discusses the dynamic phenomena of the inelastic mechanisms important when atomic and molecular species impinge on a surface. The remaining sections describe some elementary reactions, catalysis, and magneto-catalytic phenomena. This book is directed toward all surface scientists, specifically physicists, chemists, theorists, and experimentalists.

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