



Atomic and Molecular Manipulation, Volume 2 (Frontiers of Nanoscience)

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Work with individual atoms and molecules aims to demonstrate that miniaturized electronic, optical, magnetic, and mechanical devices can operate ultimately even at the level of a single atom or molecule. As such, atomic and molecular manipulation has played an emblematic role in the development of the field of nanoscience. New methods based on the use of the scanning tunnelling microscope (STM) have been developed to characterize and manipulate all the degrees of freedom of individual atoms and molecules with an unprecedented precision. In the meantime, new concepts have emerged to design molecules and substrates having specific optical, mechanical and electronic functions, thus opening the way to the fabrication of real nano-machines. Manipulation of individual atoms and molecules has also opened up completely new areas of research and knowledge, raising fundamental questions of "Optics at the atomic scale", "Mechanics at the atomic scale", "Electronics at the atomic scale", "Quantum physics at the atomic scale", and "Chemistry at the atomic scale". This book aims to illustrate the main aspects of this ongoing scientific adventure and to anticipate the major challenges for the future in "Atomic and molecular manipulation" from fundamental knowledge to the fabrication of atomic-scale devices.

- Provides a broad overview of the field to aid those new and entering into this research area
- Presents a review of the historical development and evolution of the field
- Offers a clear personalized view of current scanning probe microscopy research from world experts

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