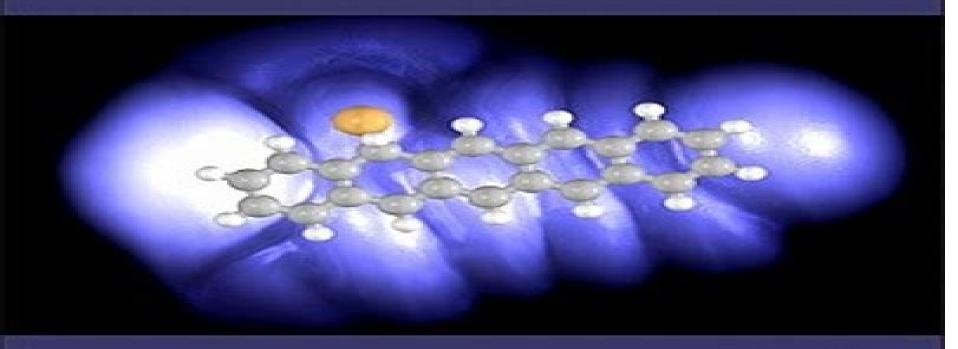


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Volume 2

Atomic and Molecular Manipulation



Andrew J. Mayne Gérald Dujardin

Atomic And Molecular Manipulation Of Chemical Interactions

Peter Rodgers

Atomic And Molecular Manipulation Of Chemical Interactions:

Atomic and Molecular Manipulation of Chemical Interactions, 2007 To understand chemistry is to be able to control it The fulfillment of this long sought after goal ultimately hinges on a detailed knowledge at the atomic and molecular level Control of chemistry not only provides insights into known materials and phenomena but also leads to chemicals with novel compositions structures and functions The primary objective of this project is to use a homemade variable low temperature scanning tunneling microscope STM to carry out atomic and molecular manipulation of chemical interactions for the discovery of novel nanostructures and properties In effect the goal is to carry out chemical changes by manipulating individual atoms and molecules to induce different bonding geometry and to create new interactions with their environment These studies provide the scientific basis for the advancement of technology in catalysis molecular electronics optics chemical and biological sensing and magnetic storage Atomic and Molecular Manipulation, 2011-07-13 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 Molecular Manipulation with Atomic Force Microscopy Anne-Sophie Duwez, Nicolas Willet, 2011-12-07 With the invention of scanning probe techniques in the early 1980s scientists can now play with single atoms single molecules and even single bonds Force dynamics and function can now be probed at the single molecule level Molecular Manipulation with Atomic Force Microscopy AFM presents a series of topics that discuss concepts and methodologies used to manipulate and study single bio molecules with AFM The first part is dedicated to the pulling of single molecules with force spectroscopy to investigate molecular interactions mechanics and mechanochemical processes and the second part to the manipulation repositioning and targeted delivery of single molecules on substrates Single molecule manipulation is an exciting area of research which made

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studied at present is taught Finally the latest research progress of nanomaterials is introduced The book lists some practical examples as far as possible to make students easy to understand and master *Nanofabrication Christo*Papadopoulos,2016-07-30 This book provides an overview of the techniques and tools of nanostructure fabrication from state of the art lithography to emerging self assembly approaches Top down and bottom up methodologies along with hybrid approaches are used to illustrate the fabrication of structures including integrated circuits semiconductor quantum dots metallic nanoparticles carbon nanotubes molecular structures nanocomposites arrays and superstructures Nanofabrication applications in nanoelectronics biotechnology nanomechanical devices and nanophotonics will be examined This brief will present the core concepts of nanofabrication relevant to researchers and industry in this important and rapidly evolving area

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